NVRPRO Series

Network Video Recorder

User Manual

Genie
HDD4 HDD3 HDD2 HDD1
HDD8 HDD7 HDD6 HDD5

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1. Introduction

Before You Use This Product

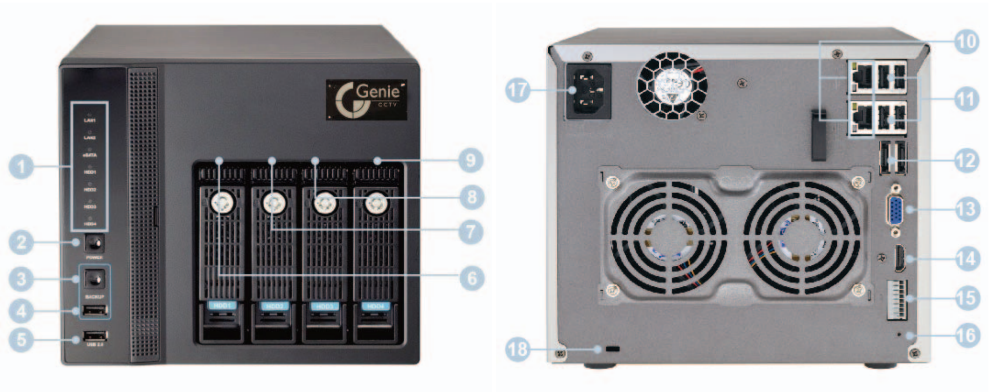
When you first open the product’s package verify that all the accessories listed on the “Package Contents” in the “Quick Installation Guide” are included. Before installing the NVRPRO, please read the instructions in the “Quick Installation Guide” to avoid misuse, and then follow the instructions in the “Hard Disk Installation” section to avoid causing damage due to faulty assembly or installation.

1.1 Hardware

NVRPRO4 Series

NVRPRO49/ NVRPRO416/ NVRPRO432

Front View Rear View



1. LED Indicators: LAN1, LAN2, eSATA, HDD1, HDD2, HDD3, HDD4
2. Power Button
3. USB Backup Button - Auto Video Backup
4. USB 2.0 x 1 (Support Auto Video Backup)
5. USB 2.0 x 1
6. HDD1
7. HDD2
8. HDD3
9. HDD4
10. Gigabit LAN x 2
11. USB 2.0 x 4
12. eSATA x 2 (Reserved)
13. VGA Output
14. HDMI Output
15. DI/DO (4 In 2 Out)

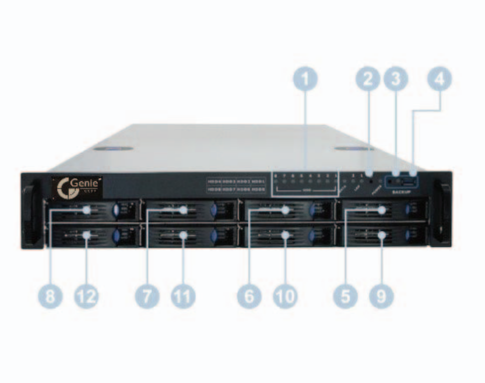
Top to Bottom: Vcc5V, GND, DI-1, DI-2, DI-3, DI-4, DO-1, DO-2

16. Reset Button
17. Power Connector
18. K-Lock Security Slot

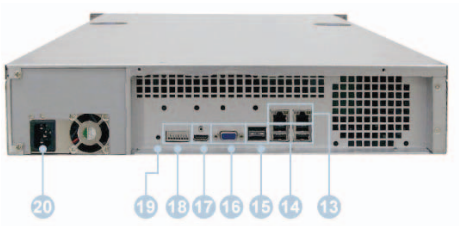
NVRPRO8 Series

NVRPRO816, NVRPRO832

Front View



Rear View



1. LED indicators: LAN1, LAN2, eSATA, HDD1, HDD2, HDD3, HDD4, HDD5, HDD6, HDD7, HDD8
2. Power Button
3. USB Backup Button - Auto Video Backup
4. USB 3.0 x 1 (Support Auto Video Backup)
5. HDD1
6. HDD2
7. HDD3
8. HDD4
9. HDD5
10. HDD6
11. HDD7
12. HDD8
13. Gigabit LAN x 2
14. USB 2.0 x 4
15. eSATA x 2 (Reserved)
16. VGA Output
17. HDMI Output
18. DI/DO (4 In 2 Out)

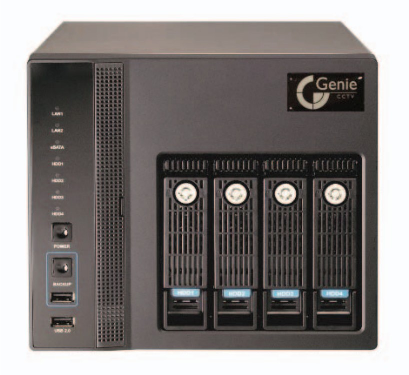
← Right to Left: Vcc5V, GND, DI-1, DI-2, DI-3, DI-4, DO1, DO2

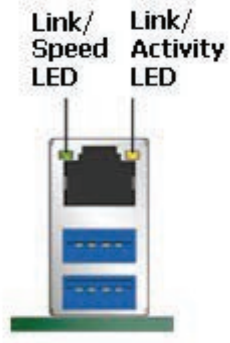
19. Reset Button
20. Power Connector

1.2 LED Indicators Status

NVRPRO4 Series

NVRPRO49, NVRPRO416, NVRPRO432





LED's on the Front Panel

LED	LED Status	Indicates
LAN1 LAN2	OFF	LAN Link is not established
	Orange	LAN Link is established
	Orange Blinking	LAN activity is occurring
eSATA	OFF	No data transmission
	Orange Blinking	The eSATA device is being accessed
HDD1 HDD2 HDD3 HDD4	OFF	Hard disk drive device is not ready
	Green	Hard disk drive is being accessed
	Red	Hard disk drive error occurred. Blinks at 0.5Hz
Power	OFF	Power Off
	Green	Power On
	Red	System error occurred
Backup	OFF	USB device is not detected
	Blue	USB device is ready
	Blue Blinking	NVR data is being copied to the USB device. Blinks at 1Hz
	Red	Backup error occurred

*USB BACKUP will start and beep after 3 seconds when the user presses the BACKUP button.

**To turn the NVR Off, the user needs to press and hold the power button for at least 2 seconds.

LED’s on RJ45 Connection on the Rear Panel

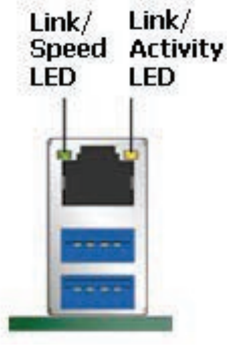
LED	LED Position	LED/State	Indicates
LAN1 LAN2	Link/Activity (Right LED)	OFF	LAN Link is not established
		Yellow	LAN Link is established
		Yellow Blinking	LAN activity is occurring
LAN1 LAN2	Speed (Left LED)	OFF	10Mbps connection or no connection
		Green	100Mbps connection
		Orange	1000Mbps connection

*USB BACKUP will start and beep after 3 seconds when the user presses the BACKUP button.

**To turn the NVR Off, the user needs to press and hold the power button for at least 2 seconds.

NVRPRO8 Series

NVRPRO816, NVRPRO832



LED's on the Front Panel

LED	LED Status	Indicates
LAN1 LAN2	OFF	LAN Link is not established
	Orange	LAN Link is established
	Orange Blinking	LAN activity is occurring
eSATA	OFF	No data transmission
	Orange Blinking	The eSATA device is being accessed
HDD1 HDD2 HDD3 HDD4 HDD5 HDD6 HDD7 HDD8	OFF	Hard disk drive device is not ready
	Green	Hard disk drive is being accessed
	Red	Hard disk drive error occurred. Blinks at 0.5Hz
Power	OFF	Power Off
	Green	Power On
	Red	System error occurred
Backup	OFF	USB device is not detected
	Blue	USB device is ready
	Blue Blinking	NVR data is being copied to the USB device. Blinks at 1Hz
	Red	Backup error occurred

LED’s on RJ45 Connection on the Rear Panel

LED	LED Position	LED/State	Indicates
LAN1 LAN2	Link/Activity (Right LED)	OFF	LAN Link is not established
		Yellow	LAN Link is established
		Yellow Blinking	LAN activity is occurring
LAN1 LAN2	Speed (Left LED)	OFF	10Mbps connection or no connection
		Green	100Mbps connection
		Orange	1000Mbps connection

*USB BACKUP will start and beep after 3 seconds when the user presses the BACKUP button.

**To turn the NVRPRO Off, the user needs to press and hold the power button for at least 2 seconds.

*** The LED’s in the HDD trays are reserved for future use.

1.3 HDMI and VGA Connection

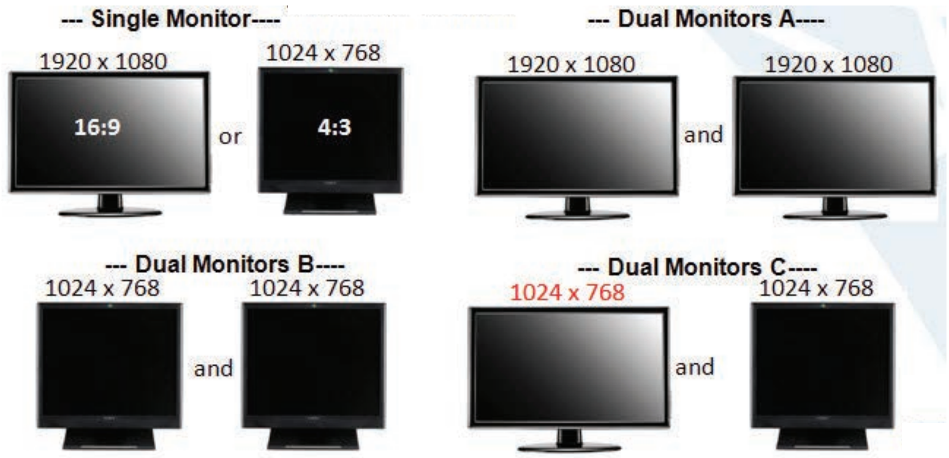
NVRPRO4 and NVRPRO8 Series local display provides both HDMI and VGA video output interfaces.

Users can connect to both HDMI and VGA at the same time for video out.

Scenario A: If both monitors are Full HD (1920x1080), the video is displayed on both as Full HD.

Scenario B: If both monitors are XGA (1024x768), both displays are XGA.

Scenario C: If one monitor is 1920x1080 and the other is 1024x768, both monitors are set to 1024x768.


--- Single Monitor----
1920 x 1080
16:9
or
1024 x 768
4:3
--- Dual Monitors A----
1920 x 1080
and
1920 x 1080
--- Dual Monitors B----
1024 x 768
and
1024 x 768
--- Dual Monitors C----
1024 x 768
and
1024 x 768

2. NVR Installation

2.1 System Requirements

The following are the minimum system requirements for a personal computer to operate the NVRPRO:

- **Operating System**

  Microsoft® Windows® XP/ Vista/ 7

- **Browser**

  Microsoft® Internet Explorer 7.0 or above (32-bit)

- **CPU**

  For under 16-channels: Intel® Dual core CPU 3.0 GHz or above.

  For over 16-channels: Intel® i5/i7 CPU 3.3 GHz or above.

- **Network**

  Minimum 10/100 Ethernet (Gigabit Ethernet is recommended)

  ⚠ **Note**: * Users are advised to connect cameras and NVR with Gigabit switches.

- **Memory**

  For under 16-channels: DDR3 4G or above.

  For over 16-channels: DDR3 8G or above

- **Graphics Adapter**

  AGP or PCI-Express, minimum 1024×768, 16-bit colours, 1G memory or above

  ⚠ **Note**: It is highly recommended to use a graphics adaptor which provides higher than 1024 x 768 resolution in order to experience the full benefits of the software.

  - Make sure the display DPI setting is set to default at 96DPI
  - To set DPI value, right-click on desktop, choose “**Settings**” tab >> “**Advanced**” >> “**General**.”

- **CD-ROM Drive**

  It’s necessary to read the operating instructions on the provided CD-ROM.

- **Adobe Reader**

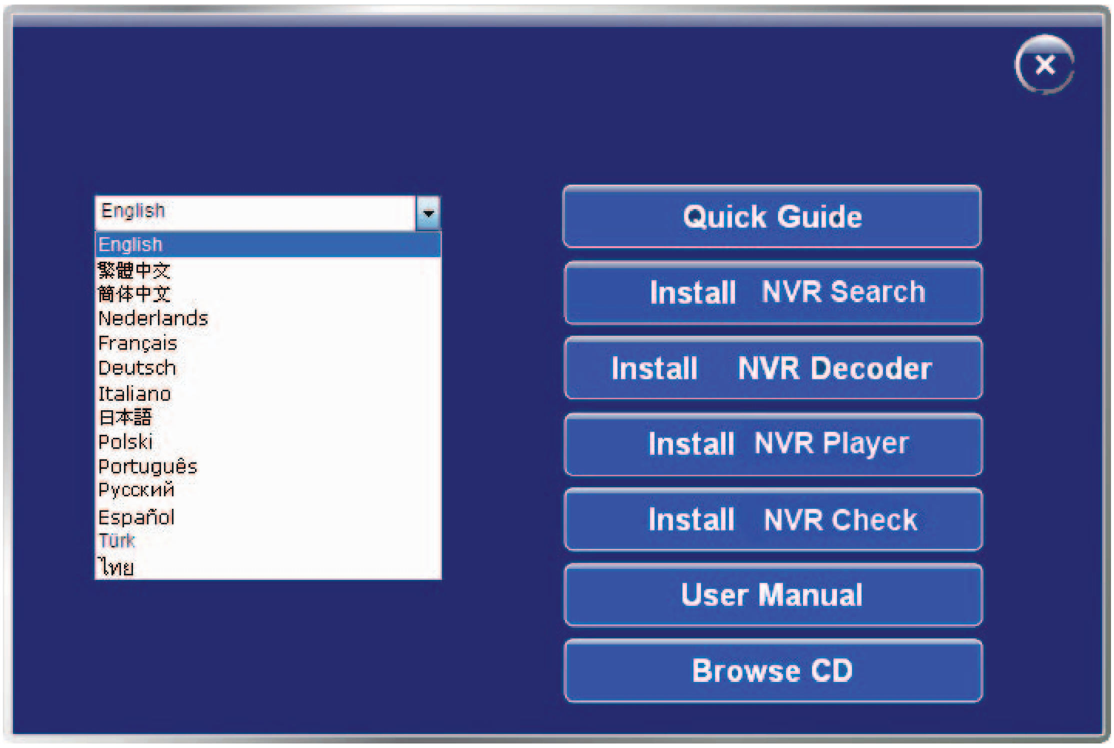
  It’s necessary to read the operating instructions in the provided CD-ROM.

  The audio function will not work if a sound card is not installed in the PC.

  Audio may be interrupted, dependent on network traffic.

2.2 Connect to NVR PRO

To begin, please insert the product CD-ROM in a PC to access the Quick Guide, User Manual and to install the utilities. When the product CD is running, the following menu is displayed:

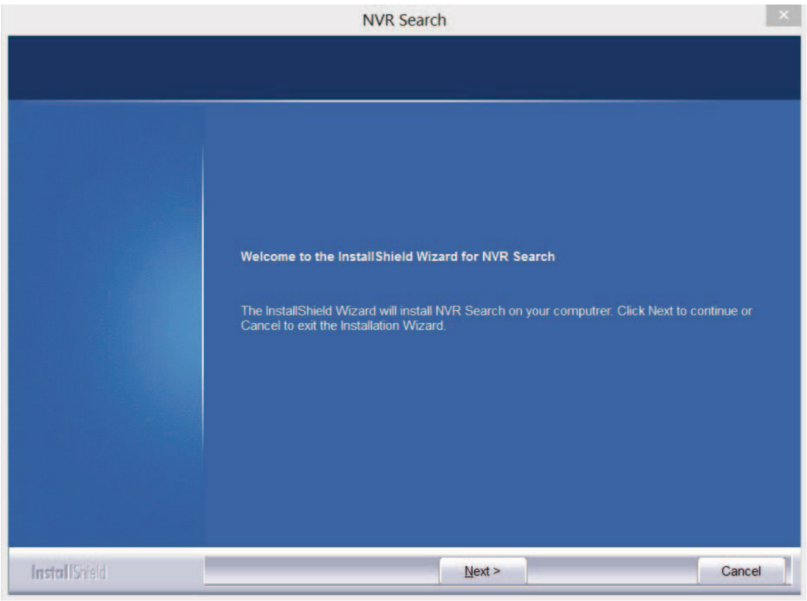

English
English
繁體中文
简体中文
Nederlands
Français
Deutsch
Italiano
日本語
Polski
Português
Русский
Español
Türk
ไทย
Quick Guide
Install NVR Search
Install NVR Decoder
Install NVR Player
Install NVR Check
User Manual
Browse CD

Quick Guide

Click “**Quick Guide**” Quick Guide to enter the folder and double click the file to open. Please read the Quick Guide to understand the NVRPRO installation process.

Install NVR Search

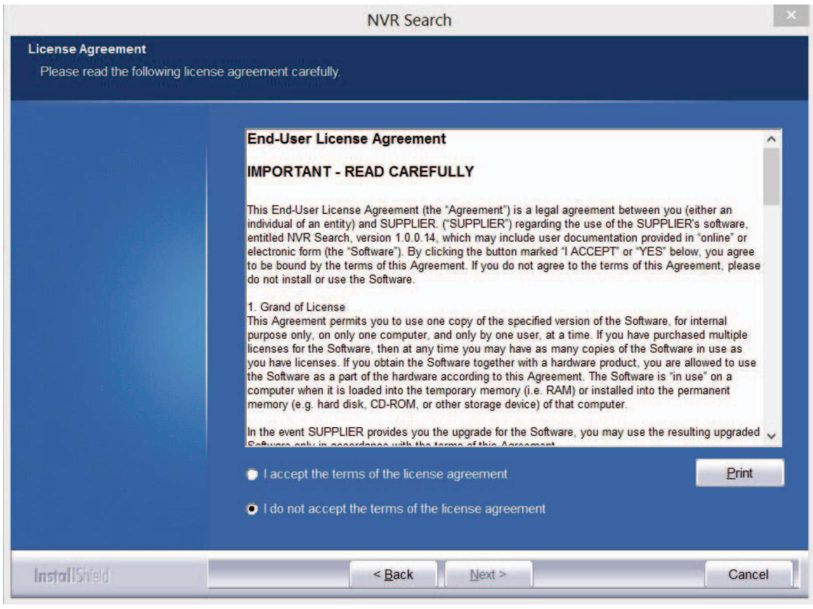
Click “**Install NVR Search**” Install NVR Search to find the NVRPRO4/8 on the network. Please follow the instructions to install and the NVRPRO Search runs automatically.



Welcome to the InstallShield Wizard for NVR Search

The InstallShield Wizard will install NVR Search on your computrer. Click Next to continue or Cancel to exit the Installation Wizard.

Install Shield Wizard window for NVRPRO Search pops up.
Click “**Next**” to continue installation.



License Agreement

Please read the following license agreement carefully.

End-User License Agreement

IMPORTANT - READ CAREFULLY

This End-User License Agreement (the “Agreement”) is a legal agreement between you (either an individual of an entity) and SUPPLIER. (“SUPPLIER”) regarding the use of the SUPPLIER’s software, entitled NVR Search, version 1.0.0.14, which may include user documentation provided in “online” or electronic form (the “Software”). By clicking the button marked “I ACCEPT” or “YES” below, you agree to be bound by the terms of this Agreement. If you do not agree to the terms of this Agreement, please do not install or use the Software.

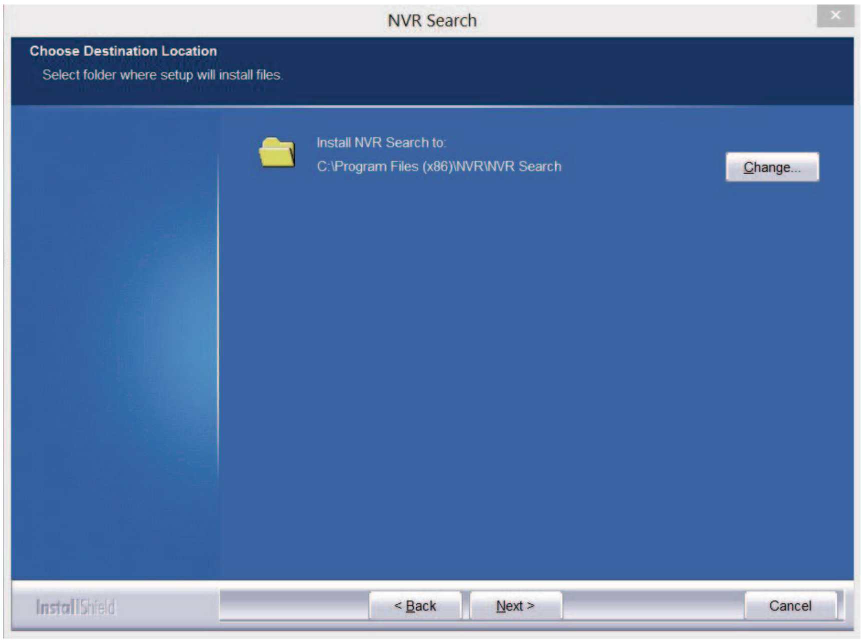
1. Grand of License
This Agreement permits you to use one copy of the specified version of the Software, for internal purpose only, on only one computer, and only by one user, at a time. If you have purchased multiple licenses for the Software, then at any time you may have as many copies of the Software in use as you have licenses. If you obtain the Software together with a hardware product, you are allowed to use the Software as a part of the hardware according to this Agreement. The Software is “in use” on a computer when it is loaded into the temporary memory (i.e. RAM) or installed into the permanent memory (e.g. hard disk, CD-ROM, or other storage device) of that computer.

In the event SUPPLIER provides you the upgrade for the Software, you may use the resulting upgraded

○ I accept the terms of the license agreement

● I do not accept the terms of the license agreement

Read the license agreement and click “**I accept the terms of the license agreement**”. Click “**Next**” to continue installation.

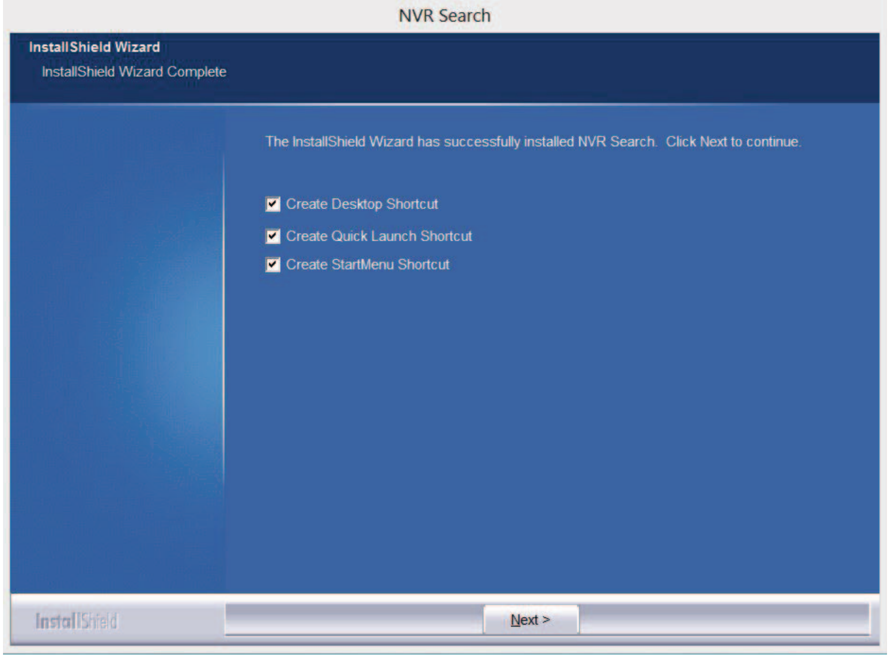

NVR Search
Choose Destination Location
Select folder where setup will install files.
Change...
InstallShield
< Back
Next >
Cancel

Install NVR Search to:
C:\Program Files (x86)\NVR\NVR Search

Select a destination location and select a folder where the setup can install files. The default location is**: C:\Program Files (x86)\NVR\NVR Search.** Users can also install NVR Search in another folder by clicking “**Change**” and selecting a location as shown below. Click “**OK**” to save the setting.

Once a folder is selected, click “**OK**” to continue installation.

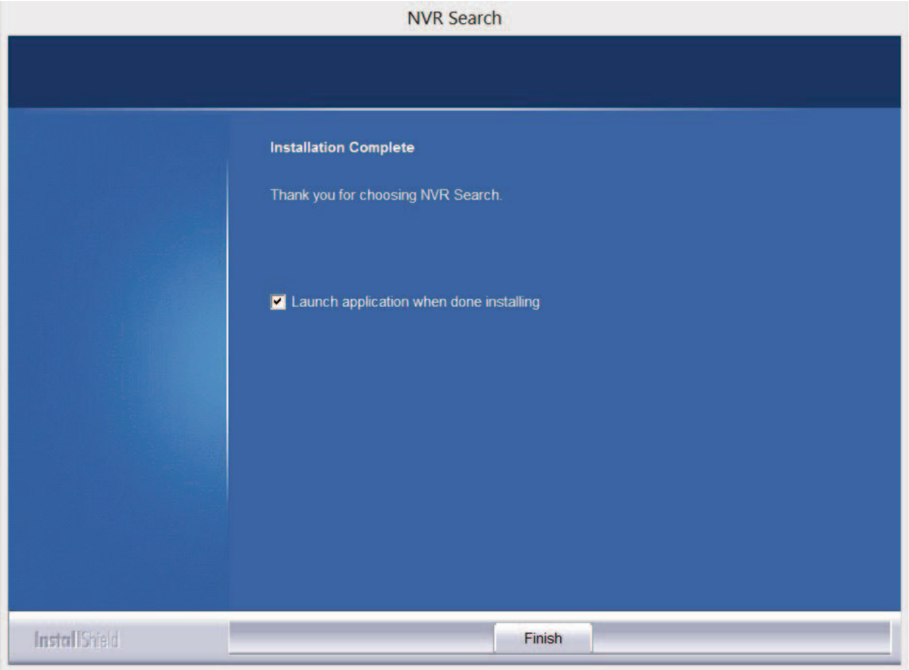
The window shows the Install Shield Wizard is installing NVR Search. Please wait until the Wizard completes the installation.


NVR Search
InstallShield Wizard
InstallShield Wizard Complete
InstallShield
Next >

The InstallShield Wizard has successfully installed NVR Search. Click Next to continue.

☑ Create Desktop Shortcut
☑ Create Quick Launch Shortcut
☑ Create StartMenu Shortcut

The Install Shield has successfully installed NVR Search. Select “**Create Desktop Shortcut**”/ “**Create Quick Launch Shortcut**”/ “**Create StartMenu Shortcut**” and click “**Next**” to continue.

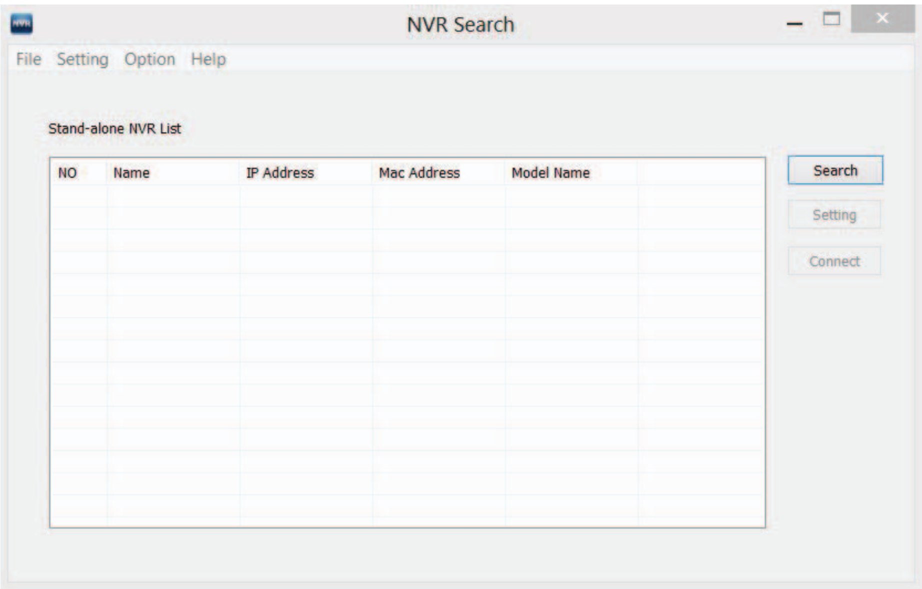

NVR Search

Installation Complete

Thank you for choosing NVR Search.

☑ Launch application when done installing

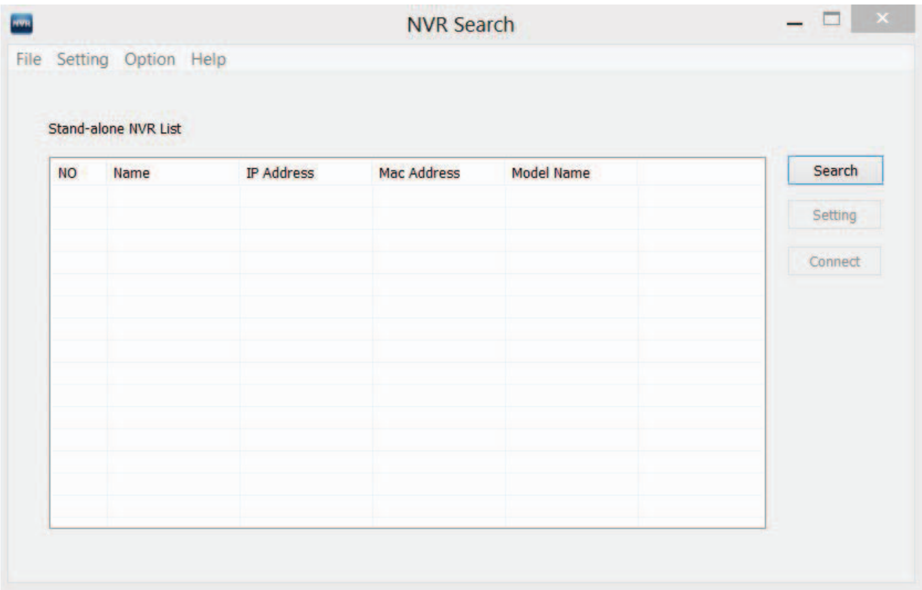
The installation is complete. Please click “**Launch application when done installing**” to execute NVRPRO Search.
After finishing the setup, the NVRPRO Search window pops up.
Easy Search executes automatically and shows **NO.**, **Name, IP Address, Mac Address and Model name** of the connected NVRPRO.


NVR Search
File
Setting
Option
Help
Stand-alone NVR List
NO
Name
IP Address
Mac Address
Model Name
Search
Setting
Connect

Users can click “**Search**” to search for connected NVRPRO.

EZ Search provides three kinds of toolbars for use by the user:

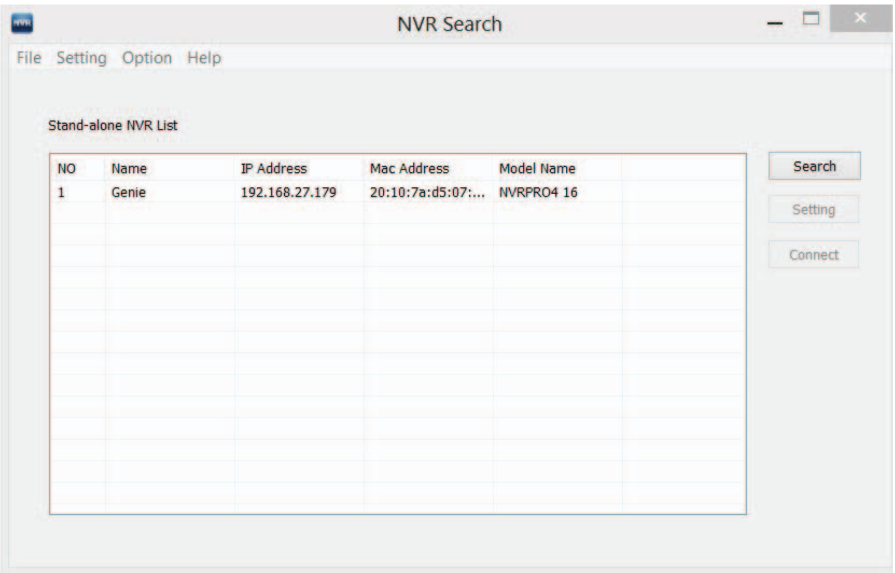
1. **File**


NVR Search
File
Setting
Option
Help
Stand-alone NVR List
NO
Name
IP Address
Mac Address
Model Name
Search
Setting
Connect

You can click “**Exit**” to leave NVRPRO Search and close the window.

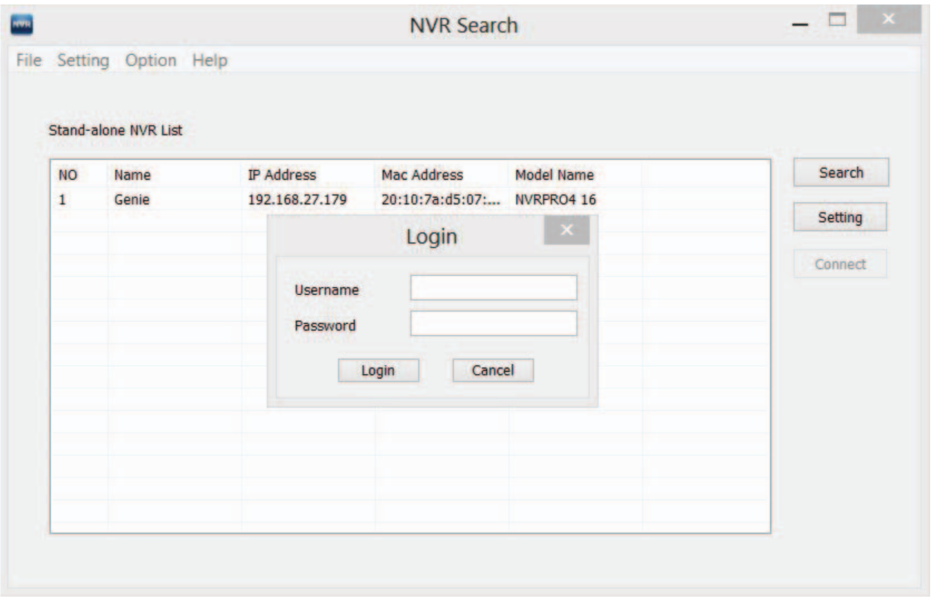
2. **Setting**

   Configure UPnP and Network by clicking “**Setting**” (on the top left).


NVR Search
File
Setting
Option
Help
Stand-alone NVR List
Search
Setting
Connect

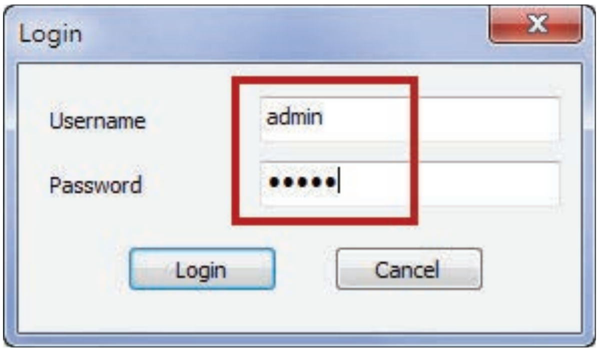
NO	Name	IP Address	Mac Address	Model Name
1	Genie	192.168.27.179	20:10:7a:d5:07:...	NVRPRO4 16

⚠ **Note**: Users are prompted to enter the login information of the NVRPRO before being allowed to change the settings.


NVR Search
File
Setting
Option
Help
Stand-alone NVR List
Search
Setting
Connect
Login
Username
Password
Login
Cancel

NO	Name	IP Address	Mac Address	Model Name
1	Genie	192.168.27.179	20:10:7a:d5:07:...	NVRPRO4 16

When accessing the NVRPRO setting, users are prompted for the NVRPRO username and password. For first-time use the default username and password are **admin/admin**. When the correct username and password have been entered, click “**Login**” to continue.

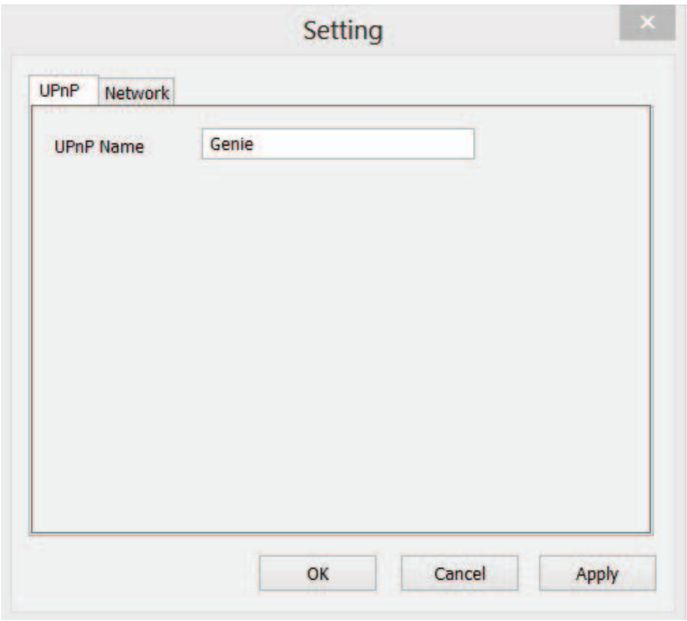

Login
Login
Cancel

Username admin

Password •••••

UPnP

Universal Plug and Play (UPnP) simplifies the process of adding a NVRPRO to a local area network. Once connected to a LAN, the NVRPRO automatically appears on the intranet. You can rename UPnP Name for the NVRPRO. Click “**OK**” to finish the setting.

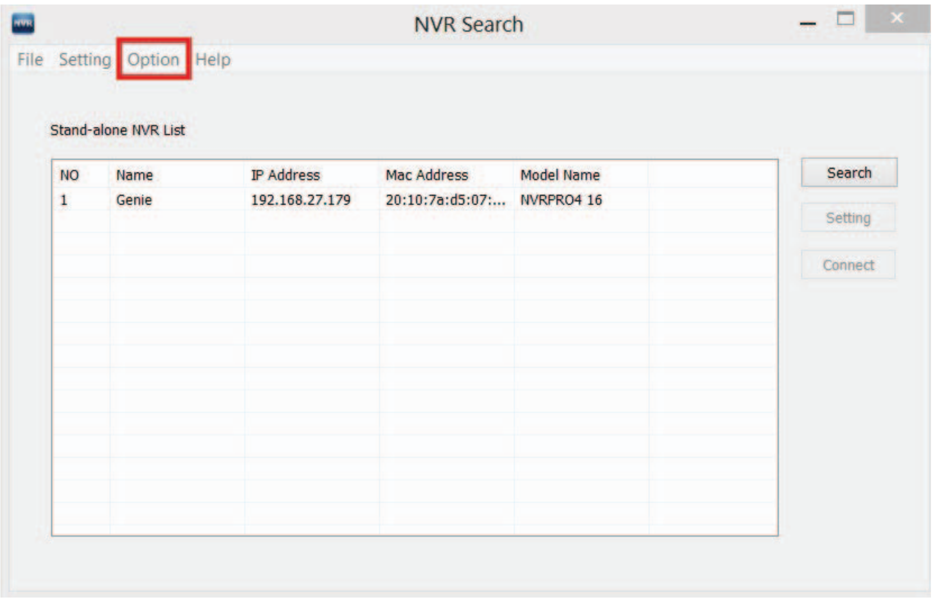

Setting
UPnP
Network
OK
Cancel
Apply

UPnP Name Genie

- **Network**

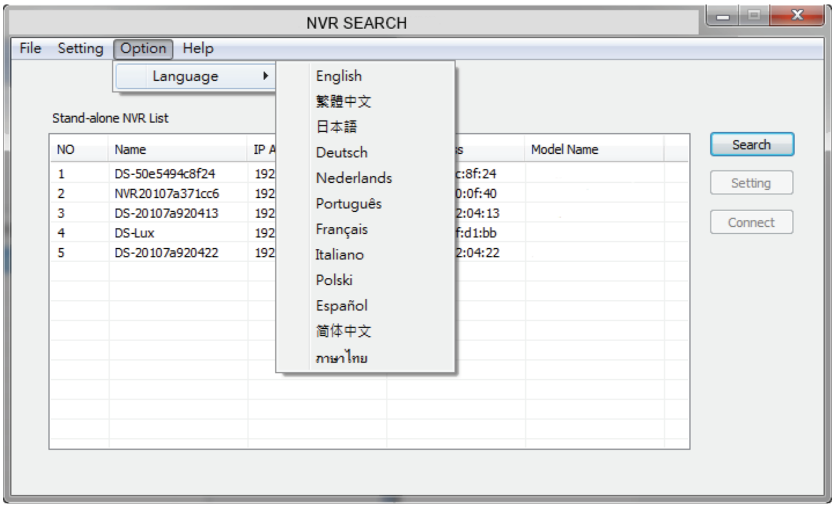
  Two modes are provided for setting the network: **DHCP** and **Static IP**.

3. Option


NVR Search
File Setting Option Help
Stand-alone NVR List
Search
Setting
Connect

NO	Name	IP Address	Mac Address	Model Name
1	Genie	192.168.27.179	20:10:7a:d5:07:...	NVRPRO4 16

Option provides twelve language options


NVR SEARCH
File Setting Option Help
Language
English
繁體中文
日本語
Deutsch
Nederlands
Português
Français
Italiano
Polski
Español
简体中文
ภาษาไทย
Stand-alone NVR List
NO
Name
IP A
s
Model Name
Search
Setting
Connect

NO	Name	IP A	s	Model Name
1	DS-50e5494c8f24	192	c:8f:24	
2	NVR20107a371cc6	192	0:0f:40	
3	DS-20107a920413	192	2:04:13	
4	DS-Lux	192	f:d1:bb	
5	DS-20107a920422	192	2:04:22	

Once you click “**Connect**” or double click the selected NVR list, IE browser pops up automatically for the web-based interface.

Install S-NVR Decoder

"**Install NVR Decoder**" Install NVR Decoder is no longer a required step as the "NVR Player" now contains the video codec required and installs this automatically during the installation progress.

User Manual

Click "**User Manual**" User Manual to open the folder and double-click on the user manual file to read.

Browse CD

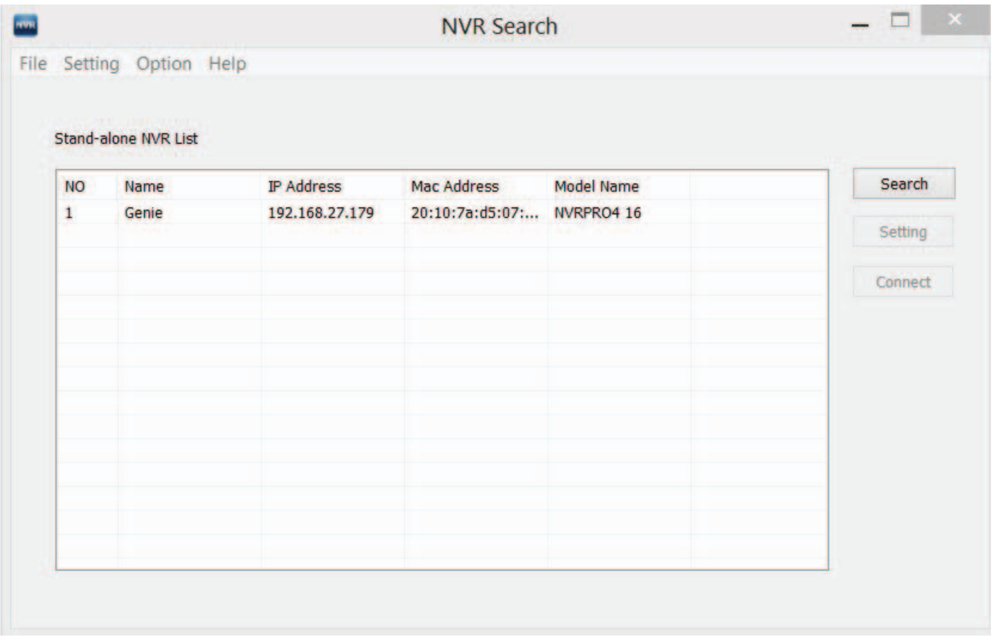
Click "**Browse CD**" Browse CD to open the folder of current Autorun.exe file.

Activate Live View Service

After setting the EZ Search, users can connect to the web-based interface by the following options:

- **Connect to NVRPRO by NVR Search**

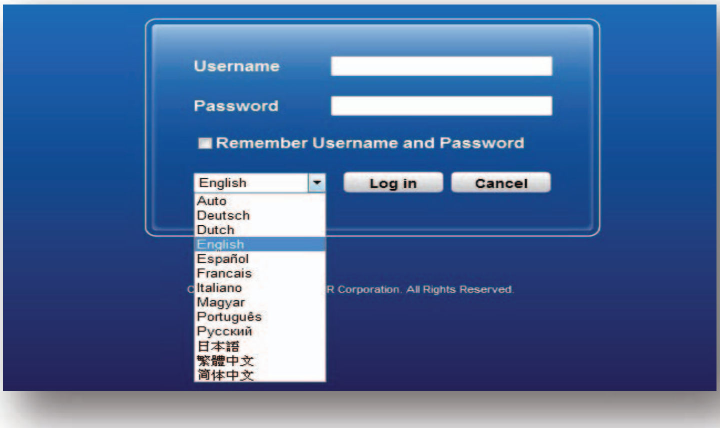
1. Once you click "**Connect**" or double click the selected NVR list, the IE browser pops up automatically.



NO	Name	IP Address	Mac Address	Model Name
1	Genie	192.168.27.179	20:10:7a:d5:07:...	NVRPRO4 16

2. Enter username and password. For first-time use the default username and password are "**admin/admin**."

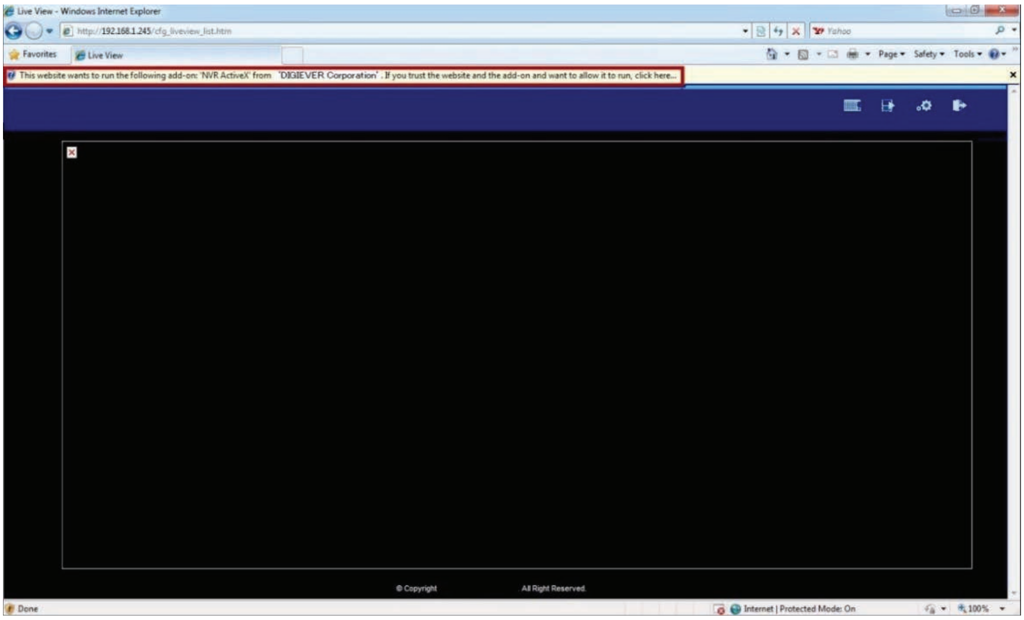
3. Select the language for the User Interface.


Username
Password
☐ Remember Username and Password
English
Auto
Deutsch
Dutch
English
Español
Francais
Italiano
Magyar
Português
Русский
日本語
繁體中文
簡体中文
Log in
Cancel
R Corporation. All Rights Reserved.

Allow ActiveX Control

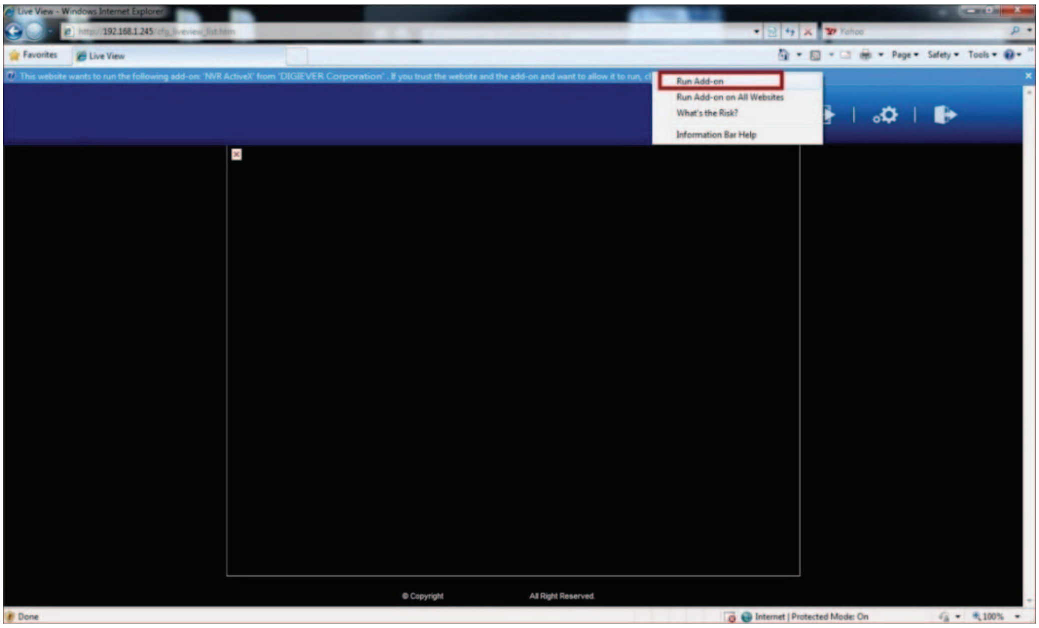
After logging in to the NVRPRO, users are recommended to install ActiveX control for the first-time installation.

1. Left-click on the description “**This website wants to run the following add-on: ‘NVR ActiveX’** ”


Live View - Windows Internet Explorer
http://192.168.1.245/cfg_liveview_list.htm
Yahoo
Favorites
Live View
Page
Safety
Tools
© Copyright
All Right Reserved.
Done
Internet | Protected Mode: On
100%

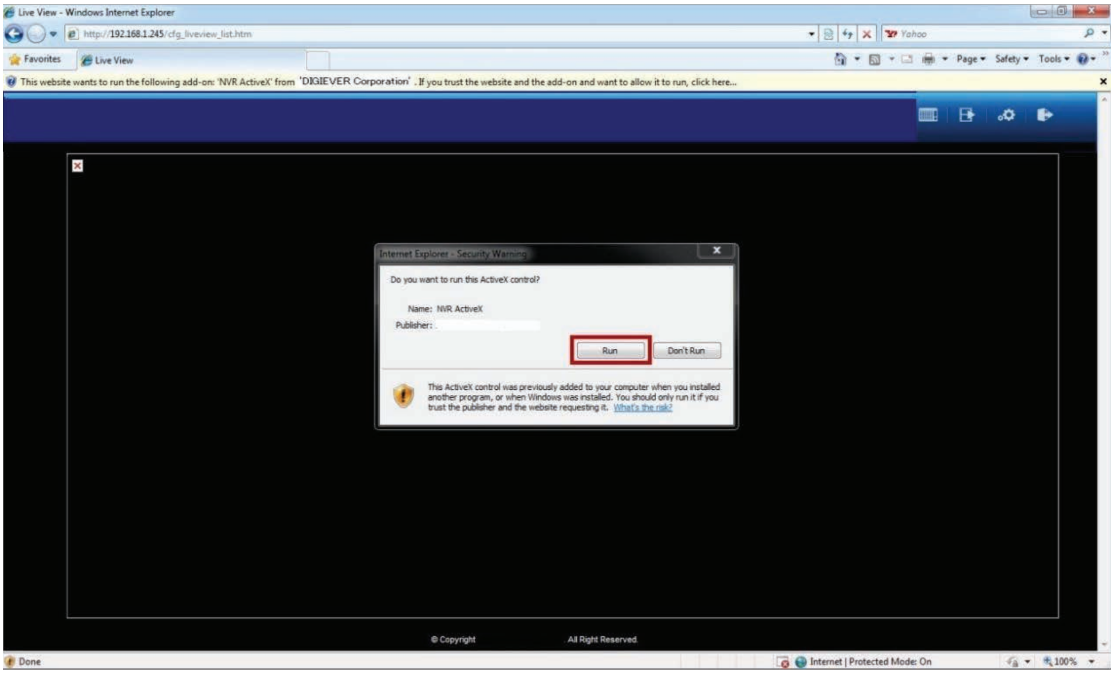
This website wants to run the following add-on: 'NVR ActiveX' from 'DIGIEVER Corporation'. If you trust the website and the add-on and want to allow it to run, click here...

2. Left-click on the description “**Run Add on**.”


Live View - Windows Internet Explorer
http://192.168.1.245/cfg_liveview_list.htm
Yahoo
Favorites
Live View
Page
Safety
Tools
Run Add-on
Run Add-on on All Websites
What's the Risk?
Information Bar Help
© Copyright
All Right Reserved.
Done
Internet | Protected Mode: On
100%

This website wants to run the following add-on: 'NVR ActiveX' from 'DIGIEVER Corporation'. If you trust the website and the add-on and want to allow it to run, cl

3. Left-click “**Run**” to use licensed ActiveX controls.


Live View - Windows Internet Explorer
http://192.168.1.245/cfg_liveview_list.htm
Yahoo
Favorites
Live View
Page
Safety
Tools

This website wants to run the following add-on: 'NVR ActiveX' from 'DIGIEVER Corporation' . If you trust the website and the add-on and want to allow it to run, click here...

Internet Explorer - Security Warning

Do you want to run this ActiveX control?

Name: NVR ActiveX
Publisher: [redacted]

Run
Don't Run

This ActiveX control was previously added to your computer when you installed another program, or when Windows was installed. You should only run it if you trust the publisher and the website requesting it. What's the risk?

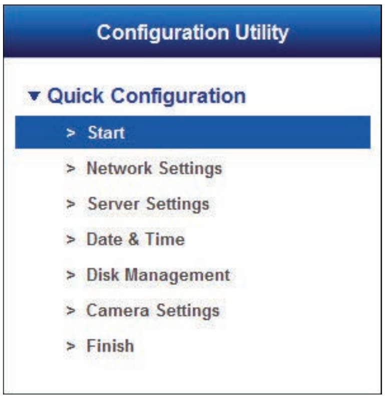
© Copyright
All Right Reserved
Done
Internet | Protected Mode: On
100%

2.3 Quick Configuration

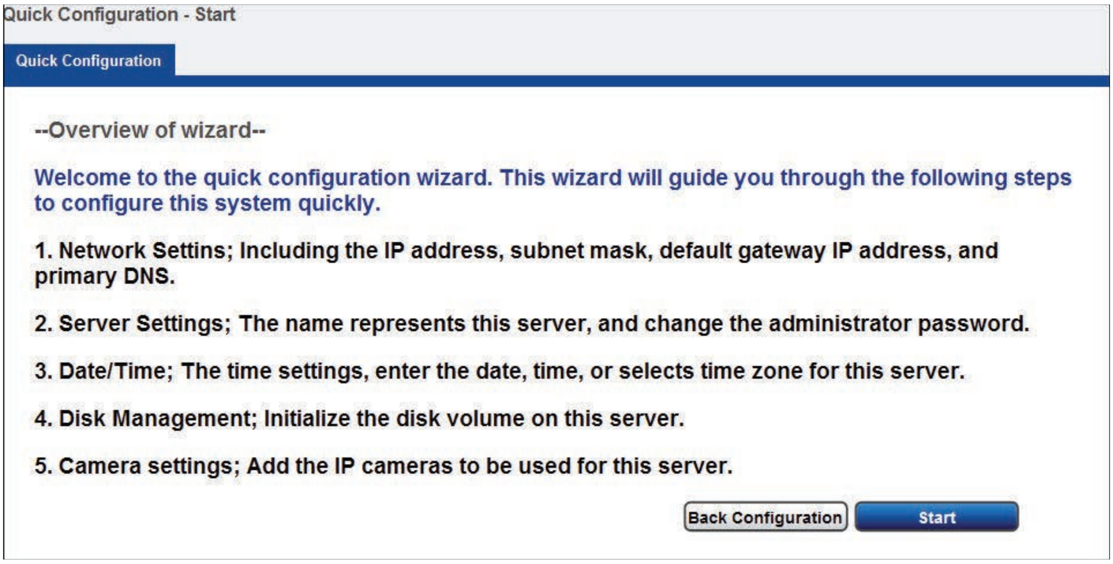
After you log in to the NVRPRO, and install the ActiveX control, the system directs you to setup the Quick Configuration (in five main steps). Follow the instructions of the Wizard Overview to complete the system setup.

Start

System leads you to select "**Start**" from the **Configuration Utility** drop-down menu to begin.


Configuration Utility
▼ Quick Configuration
> Start
> Network Settings
> Server Settings
> Date & Time
> Disk Management
> Camera Settings
> Finish

To initialise the configuration, firstly study the Wizard Overview and the Wizard will guide you through five quick steps to set up the system.


Quick Configuration - Start
Quick Configuration

--Overview of wizard--

Welcome to the quick configuration wizard. This wizard will guide you through the following steps to configure this system quickly.

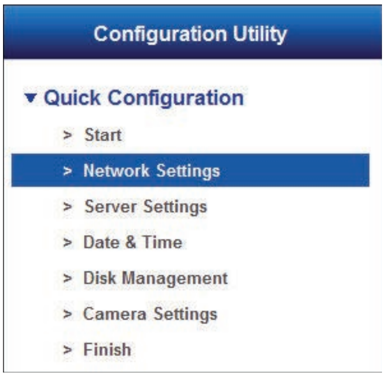
1. Network Settins; Including the IP address, subnet mask, default gateway IP address, and primary DNS.
2. Server Settings; The name represents this server, and change the administrator password.
3. Date/Time; The time settings, enter the date, time, or selects time zone for this server.
4. Disk Management; Initialize the disk volume on this server.
5. Camera settings; Add the IP cameras to be used for this server.

Back Configuration
Start

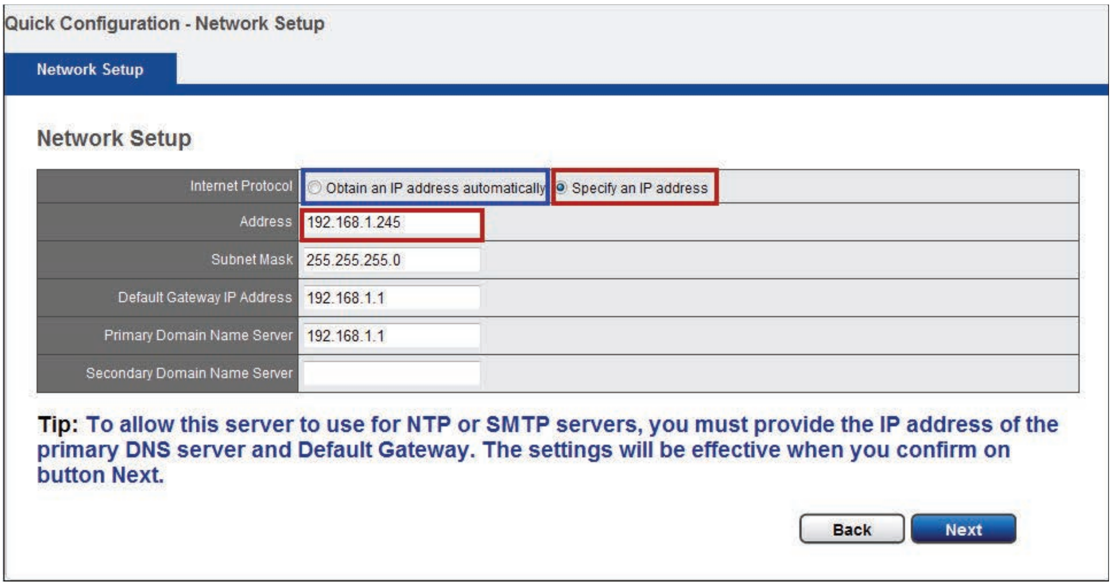
Click "**Start**" in Overview to begin Quick Configuration.

Network Settings

Select “**Network Settings**” from the **Configuration Utility** drop-down menu to begin.


Configuration Utility
▼ Quick Configuration
> Start
> Network Settings
> Server Settings
> Date & Time
> Disk Management
> Camera Settings
> Finish

Users need to adjust the Network Setup page settings for the NVRPRO to work properly within the network.


Quick Configuration - Network Setup
Network Setup
Back
Next

Network Setup

Internet Protocol	○ Obtain an IP address automatically ● Specify an IP address
Address	192.168.1.245
Subnet Mask	255.255.255.0
Default Gateway IP Address	192.168.1.1
Primary Domain Name Server	192.168.1.1
Secondary Domain Name Server	

Tip: To allow this server to use for NTP or SMTP servers, you must provide the IP address of the primary DNS server and Default Gateway. The settings will be effective when you confirm on button Next.

- **Obtain an IP address automatically (NVR Default)**
  Obtain an available dynamic IP address assigned by a DHCP server. If this option is selected the NVRPRO automatically obtains an available dynamic IP address from the DHCP server - once it connects to the network.
- **Specify an IP address.**
  If no DHCP server exists in the network environment the static IP address 192.168.1.245 is given. It should be adaptable in most networking environments, and users can choose to maintain the default IP address

or change it in this page. However, it’s advisable to set different IP addresses if there is more than one NVRPRO in the same LAN.

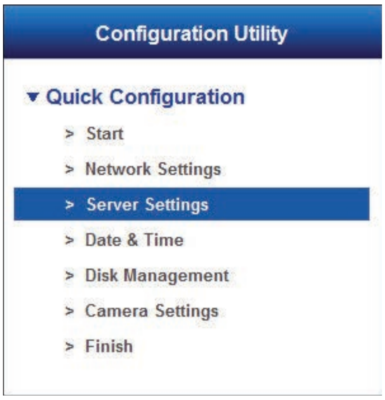
To assign a static IP address to the NVRPRO:

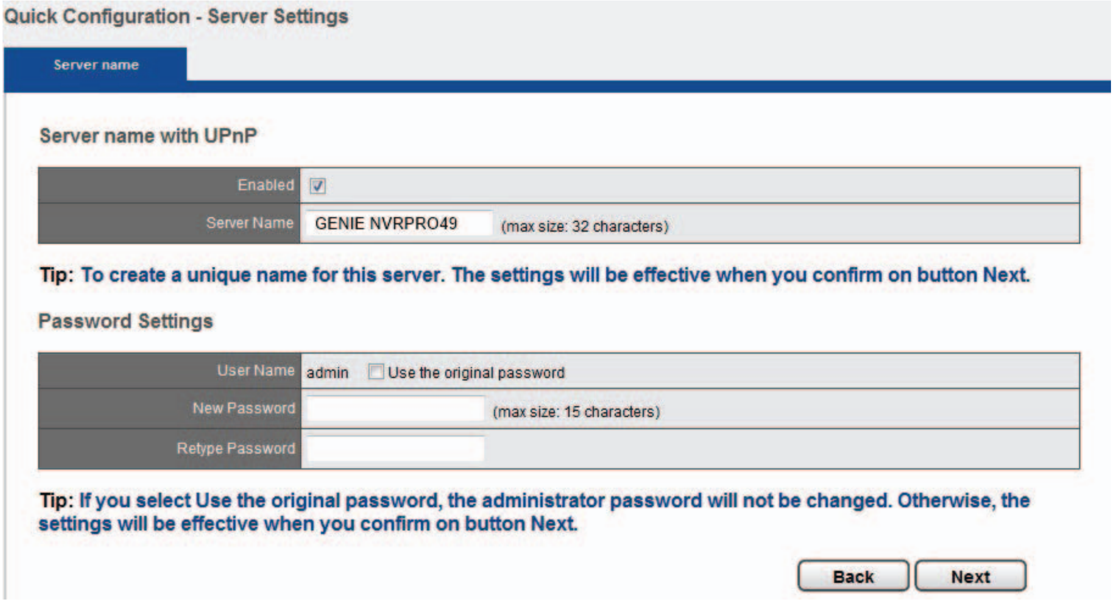
1. Select “**Specify an IP address**”
2. Enter the **IP address**, **Subnet Mask**, **Default Gateway IP Address** and **DNS** server address.
3. If the IP Address is changed, users need to logout and login again.

Click “**Next**” to proceed with the configuration.

2.3.1 Server Settings

Select “**Server Settings**” from the **Configuration Utility** drop-down menu to begin.


Configuration Utility
▼ Quick Configuration
> Start
> Network Settings
> Server Settings
> Date & Time
> Disk Management
> Camera Settings
> Finish


Quick Configuration - Server Settings

Server name

Server name with UPnP

Enabled	☑
Server Name	GENIE NVRPRO49 (max size: 32 characters)

Tip: To create a unique name for this server. The settings will be effective when you confirm on button Next.

Password Settings

User Name	admin ☐ Use the original password
New Password	(max size: 15 characters)
Retype Password	

Tip: If you select Use the original password, the administrator password will not be changed. Otherwise, the settings will be effective when you confirm on button Next.

- **Server Name with UPnP**

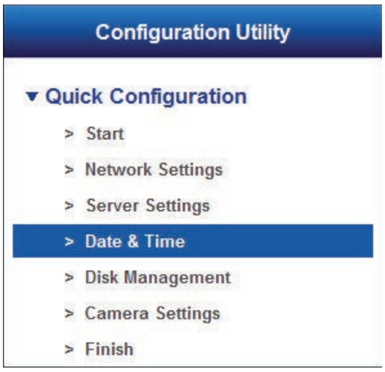
Universal Plug and Play (UPnP) simplifies the process of adding a NVRPRO to a local area network. Once connected to the LAN, the NVRPRO automatically appears on the intranet. Users can select to enable the UPnP function and edit the server name.

- **Password Settings**

Each NVRPRO comes with a built-in “**admin**” account with “**admin**” password. It’s highly recommended that the password is changed on the initial login. Enter a new password in the “**New Password**” field and enter it again in “**Retype Password.”** Once you confirm “**Next**,” the administrator password is changed.

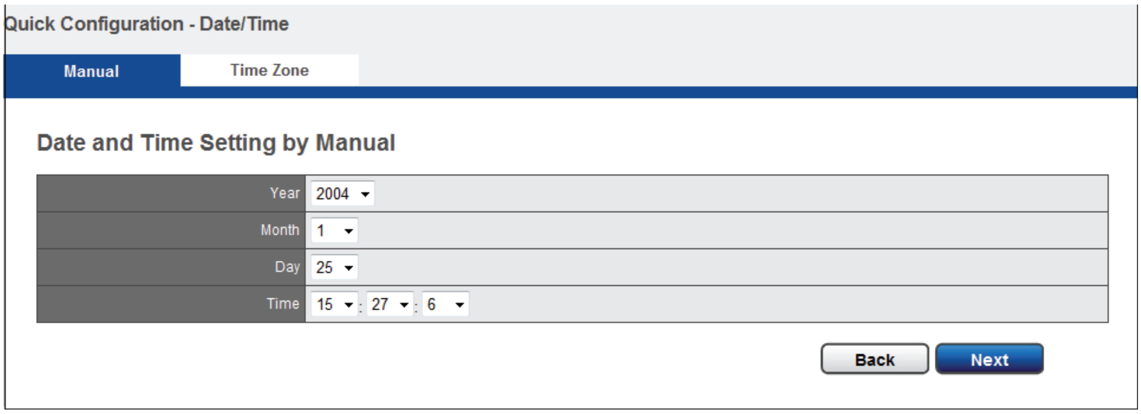
Date & Time

Select “**Date & Time**” from the **Configuration Utility** drop-down menu to begin.


Configuration Utility
▼ Quick Configuration
> Start
> Network Settings
> Server Settings
> Date & Time
> Disk Management
> Camera Settings
> Finish

- **Manual Setting**

Use the drop-down list and configure the time manually. Select the **Year, Month, Date** and **Time**. Time setting is effective when you click “**Next**.”


Manual
Time Zone
Back
Next

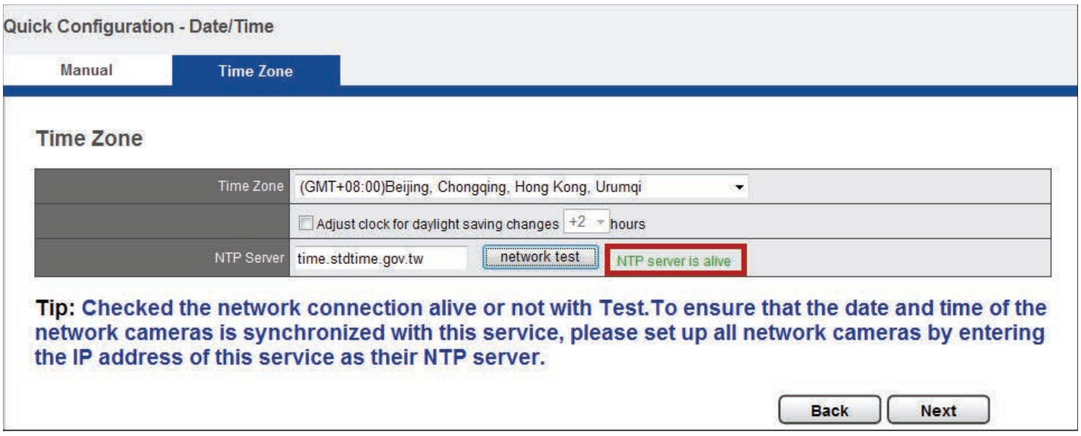
Quick Configuration - Date/Time

Date and Time Setting by Manual

Year	2004
Month	1
Day	25
Time	15 : 27 : 6

- **Time Zone: Synchronise with an Internet Time Server automatically.**

Select the time zone for your area and automatically update the date and time of the NVRPRO with a NTP server. Users can also enable an option to automatically update for daylight saving changes.



Time Zone: (GMT+08:00)Beijing, Chongqing, Hong Kong, Urumqi

☐ Adjust clock for daylight saving changes +2 hours

NTP Server: time.stdtime.gov.tw

NTP server is alive

Tip: Checked the network connection alive or not with Test.To ensure that the date and time of the network cameras is synchronized with this service, please set up all network cameras by entering the IP address of this service as their NTP server.

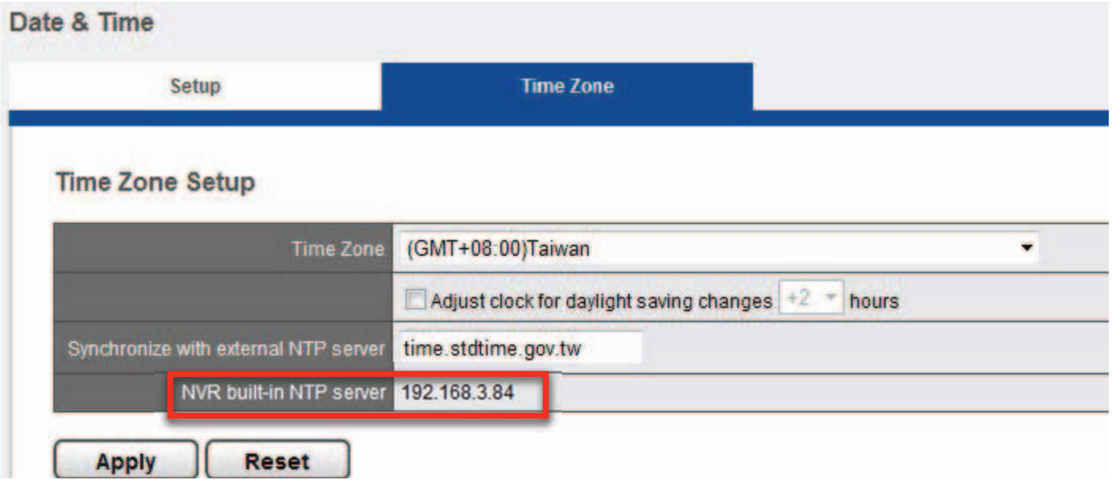
Configure the time and date by verifying and adjusting current local time and daylight saving to avoid the following errors:

- Incorrect display time on playback videos.
- Inconsistent display time of event logs and when they actually occur.

  Select to synchronise the server time with an Internet time server. NTP (Network Time Protocol) is a protocol for synchronising the clocks of a computer system. Enter the hostname of a valid NTP server.

Built-in NTP Server in NVR

NVRPRO provides the NTP server function for client device to synchronise the time clock. It helps maintain the same time schedule in your surveillance system.



Time Zone: (GMT+08:00)Taiwan

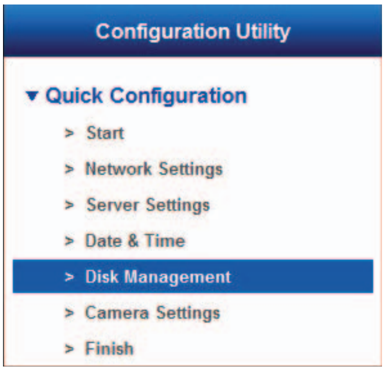
☐ Adjust clock for daylight saving changes +2 hours

Synchronize with external NTP server: time.stdtime.gov.tw

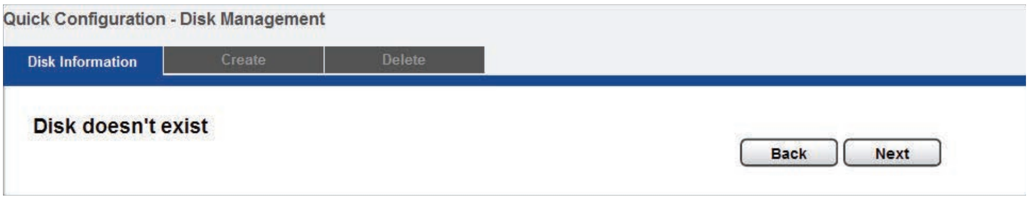
NVR built-in NTP server: 192.168.3.84

Disk Management

Select “**Disk Management**” from the **Configuration Utility** drop-down menu to begin.


Configuration Utility
Quick Configuration
> Start
> Network Settings
> Server Settings
> Date & Time
> Disk Management
> Camera Settings
> Finish

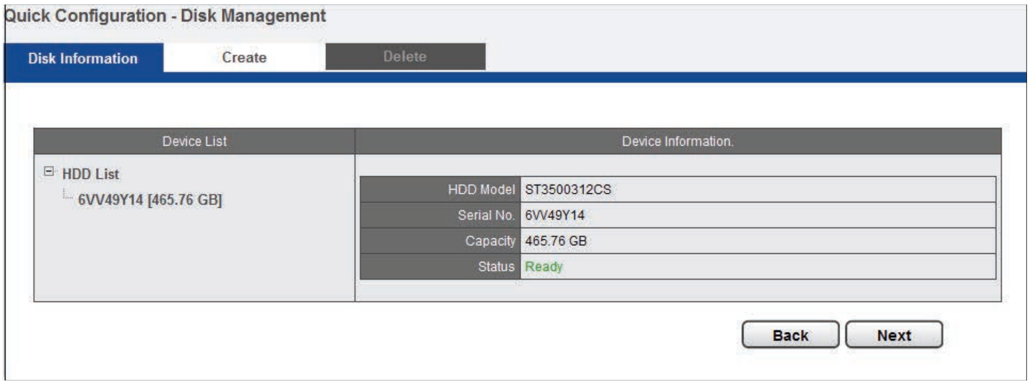
When there are no hard disks installed in the NVRPRO, the page displays “**Disk doesn’t exist.**”


Quick Configuration - Disk Management
Disk Information
Create
Delete
Back
Next

Disk doesn't exist

Once a hard disk drive is inserted into the tray the Disk Information tab shows the device information and users can start to create new RAID Disks.

- **Disk Information**

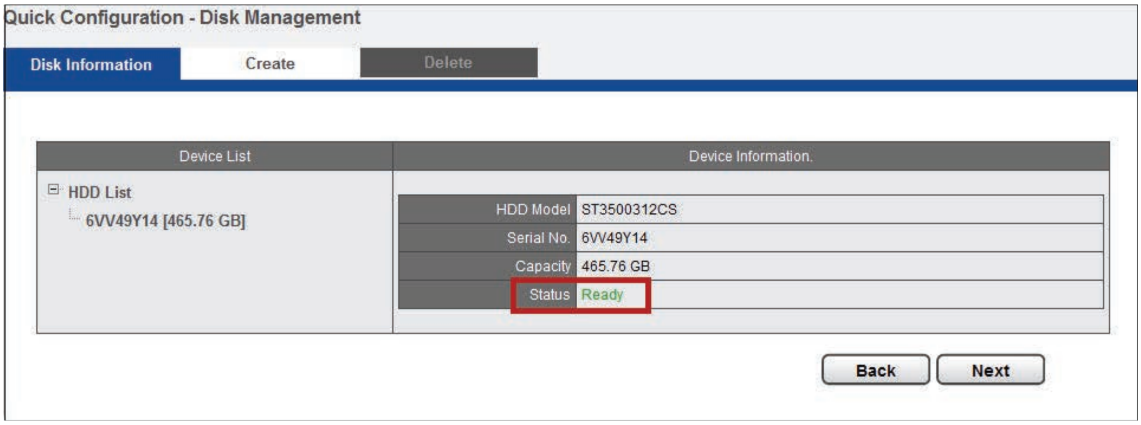

Quick Configuration - Disk Management
Disk Information
Create
Delete
Device List
Device Information.
Back
Next

HDD List
6VV49Y14 [465.76 GB]

HDD Model: ST3500312CS
Serial No.: 6VV49Y14
Capacity: 465.76 GB
Status: Ready

Device Information provides details of the hard disk drive: **HDD Model**, **Serial NO.**, **Capacity** and **Status**.

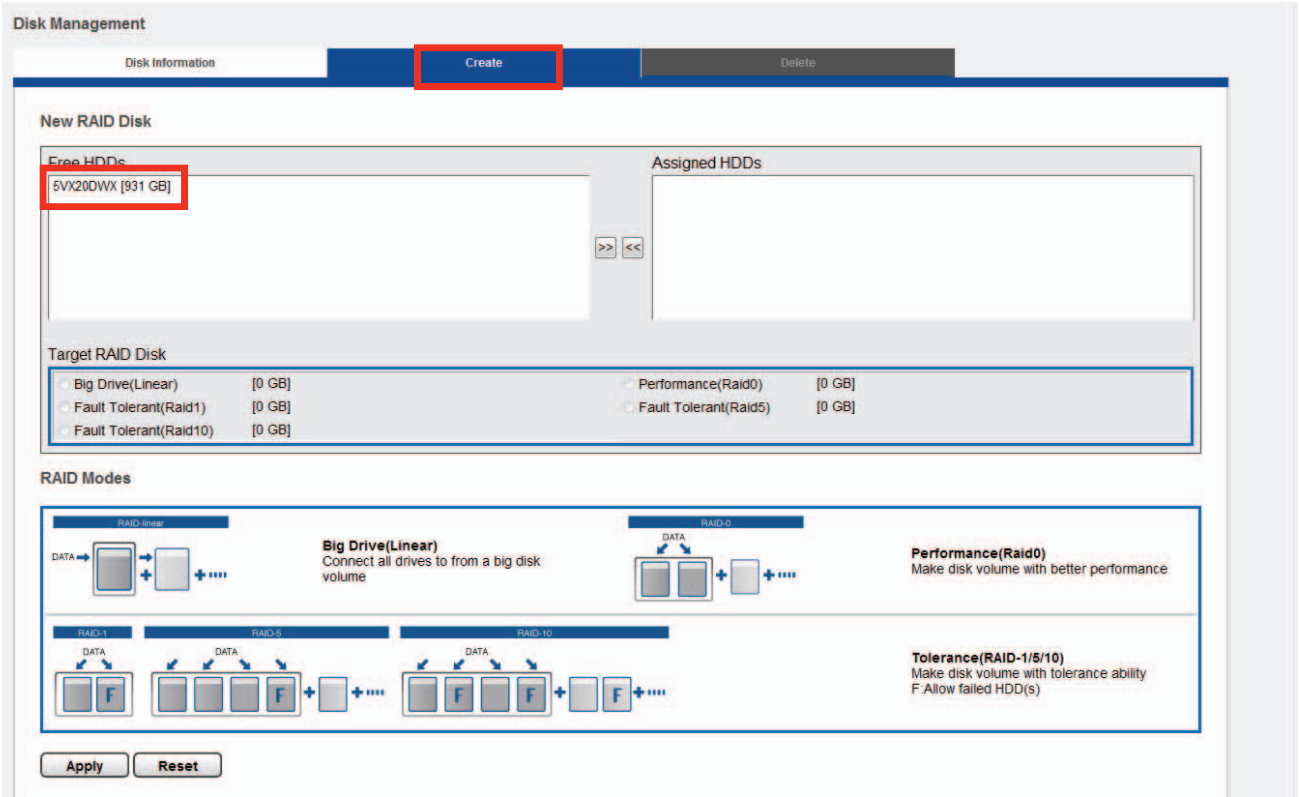
- **Create**


Quick Configuration - Disk Management

Disk Information
Create
Delete
Device List
Device Information.
HDD List
6VV49Y14 [465.76 GB]
Back
Next

HDD Model	ST3500312CS
Serial No.	6VV49Y14
Capacity	465.76 GB
Status	Ready

As the hard disk drive is available, the Device Information status shows “**Ready**”, which indicates the hard disk drive is **ready to be created**.


Disk Management

Disk Information
Create
Delete
New RAID Disk
Free HDDs
Assigned HDDs
>>
<<
Target RAID Disk
RAID Modes
RAID-linear
DATA
RAID-0
RAID-1
RAID-5
RAID-10
F
Apply
Reset

Free HDDs: 5VX20DWX [931 GB]

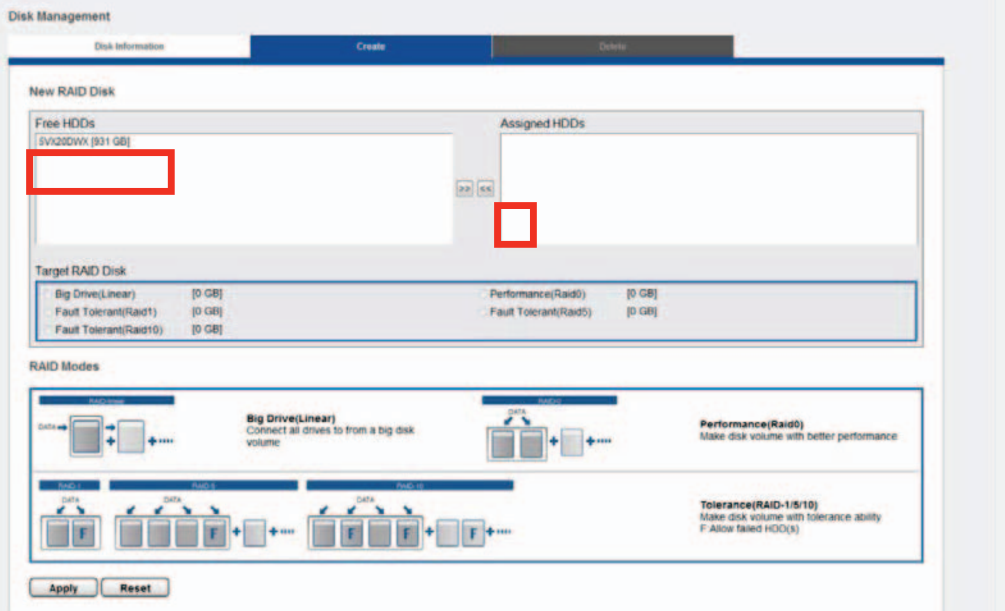
○ Big Drive(Linear) [0 GB]
○ Fault Tolerant(Raid1) [0 GB]
○ Fault Tolerant(Raid10) [0 GB]
○ Performance(Raid0) [0 GB]
○ Fault Tolerant(Raid5) [0 GB]

Big Drive(Linear)
Connect all drives to from a big disk volume

Performance(Raid0)
Make disk volume with better performance

Tolerance(RAID-1/5/10)
Make disk volume with tolerance ability
F:Allow failed HDD(s)

Click “**Create**” to enter the window for building the New RAID Disk, and select the hard disk drive in the Free HDD’s field.



New RAID Disk

Free HDDs

5VX20DWX [931 GB]

Assigned HDDs

Target RAID Disk

○ Big Drive(Linear)	[0 GB]	○ Performance(Raid0)	[0 GB]
○ Fault Tolerant(Raid1)	[0 GB]	○ Fault Tolerant(Raid5)	[0 GB]
○ Fault Tolerant(Raid10)	[0 GB]		

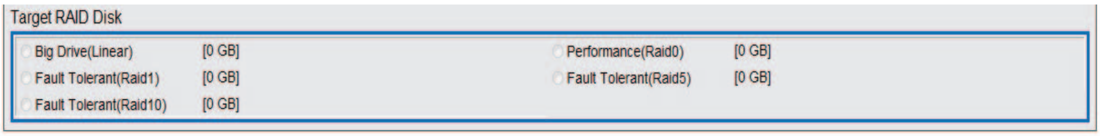
Big Drive(Linear)
Connect all drives to from a big disk volume

Performance(Raid0)
Make disk volume with better performance

Tolerance(RAID-1/5/10)
Make disk volume with tolerance ability
F:Allow failed HDD(s)

The selected hard disk drive in the Free HDD’s field is highlighted in blue. Click >> to transfer the hard disk drive into the Assigned HDD’s field.

The selected hard disk drive in the Assigned HDDs field is highlighted in blue.



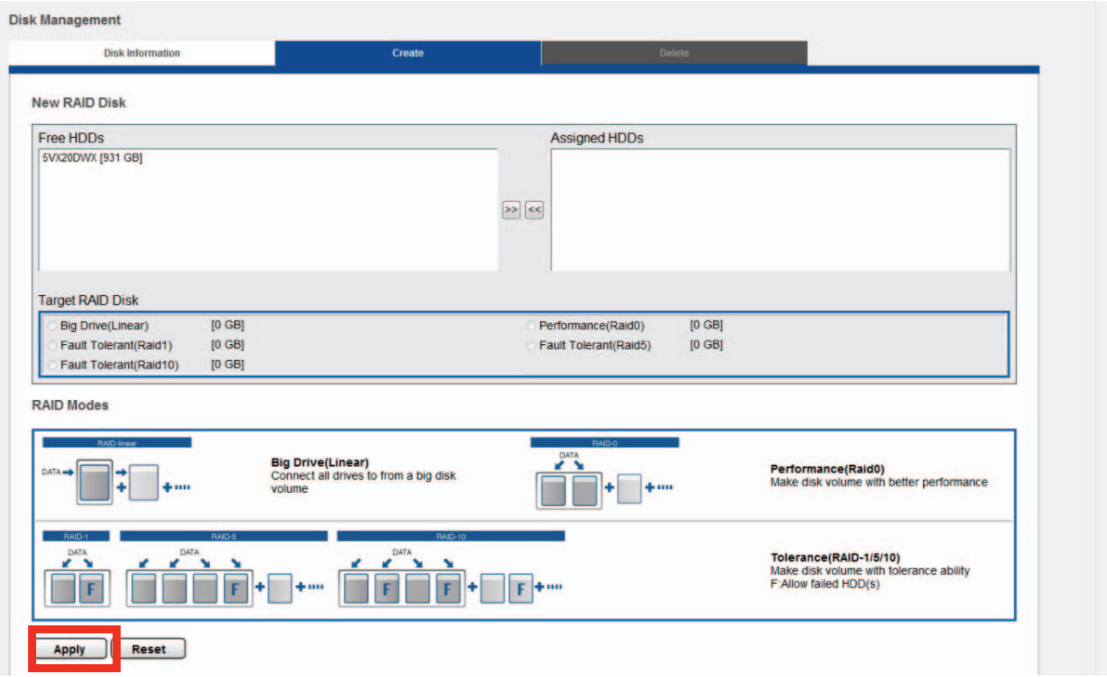
Target RAID Disk

○ Big Drive(Linear)	[0 GB]	○ Performance(Raid0)	[0 GB]
○ Fault Tolerant(Raid1)	[0 GB]	○ Fault Tolerant(Raid5)	[0 GB]
○ Fault Tolerant(Raid10)	[0 GB]		

Meanwhile, Target RAID Disk is ready to build the RAID disk and shows the types of disk configuration options.

Disk Configuration

Big Drive (Linear)	Big Drive is a collection of hard disk drives and does not provide any RAID protection. Data is written to the disks continuously.
Performance (Raid0)	RAID0 is one larger volume with 2 or more hard disk drives. Data is written to the hard disk drives without any parity information. The total storage capacity is the sum of all hard disk drives.
Fault Tolerant (Raid1)	2 hard disk drives are required to create a RAID1 array. RAID1 can provide disk mirroring by duplicating the data between two hard disk drives.
Fault Tolerant (Raid5)	A minimum of 3 hard disk drives are required to create RAID5. Data is striped in all hard drives in a RAID5 array and the parity information is stored in each drive. If a hard disk drive fails, the array enters degraded mode. The data can be rebuilt from other member drives after installing a new drive to replace the failed one.
Fault Tolerant (Raid10)	Data is written in stripes across primary disks that have been mirrored to the secondary disks. A typical RAID 10 configuration consists of four drives, two for striping and two for mirroring


Disk Management
Disk Information
Create
Delete
>>
<<
RAID-linear
DATA
RAID-0
RAID-1
RAID-5
RAID-10
F
Apply
Reset

New RAID Disk

Free HDDs

5VX20DWX [931 GB]

Assigned HDDs

Target RAID Disk

○ Big Drive(Linear)	[0 GB]	○ Performance(Raid0)	[0 GB]
○ Fault Tolerant(Raid1)	[0 GB]	○ Fault Tolerant(Raid5)	[0 GB]
○ Fault Tolerant(Raid10)	[0 GB]		

RAID Modes

Big Drive(Linear)
Connect all drives to from a big disk volume

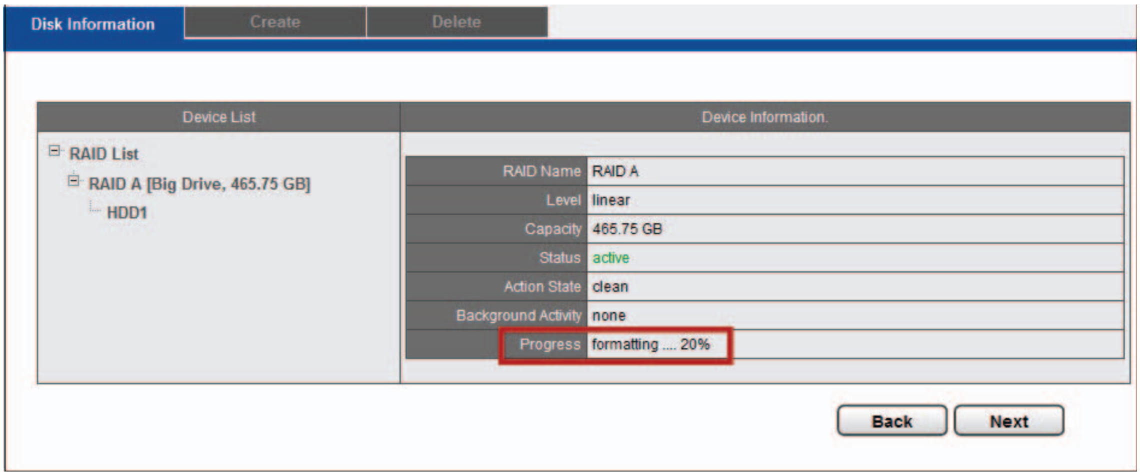
Performance(Raid0)
Make disk volume with better performance

Tolerance(RAID-1/5/10)
Make disk volume with tolerance ability
F:Allow failed HDD(s)

Select a type of disk configuration, and click “**Apply**” to execute building a new RAID disk.

⚠ **Note**: Don’t turn off the server or unplug any hard drives when RAID Disk is in building process.

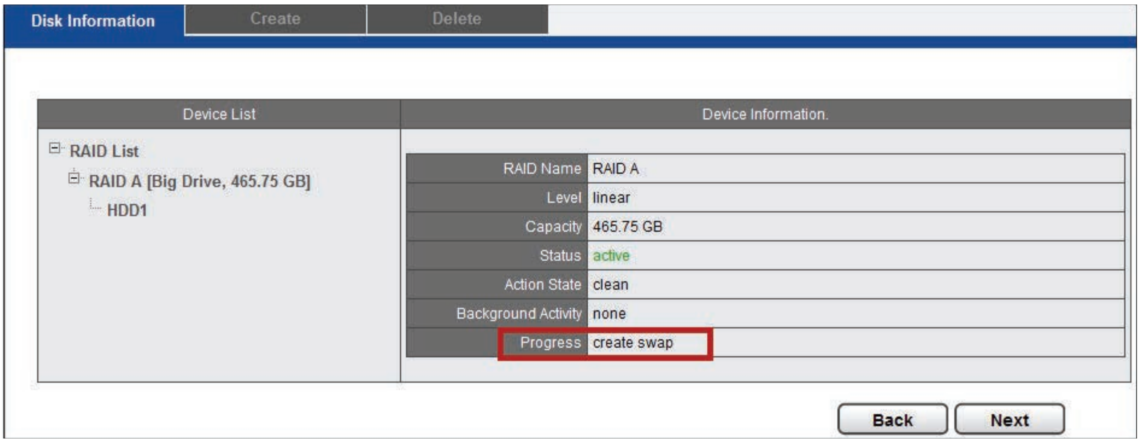
Please wait. The disk configuration is in a process.


Disk Information
Create
Delete
Device List
Device Information
Back
Next

⊟ RAID List
⊟ RAID A [Big Drive, 465.75 GB]
HDD1

RAID Name	RAID A
Level	linear
Capacity	465.75 GB
Status	active
Action State	clean
Background Activity	none
Progress	formatting 20%

The progress is displayed “**formatting….20%**”. Please wait until it’s at 100%.



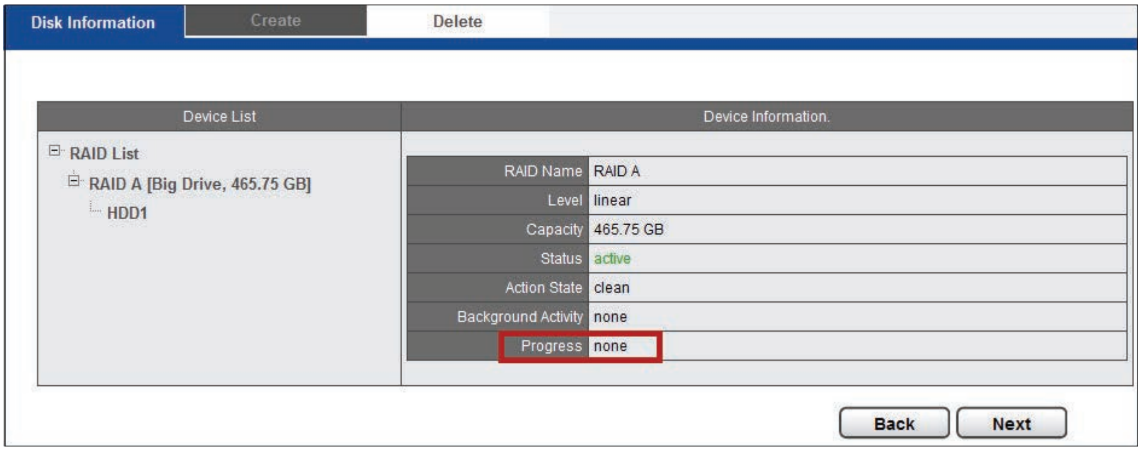
Device List

- RAID List
  - RAID A [Big Drive, 465.75 GB]
    - HDD1

Device Information.

RAID Name	RAID A
Level	linear
Capacity	465.75 GB
Status	active
Action State	clean
Background Activity	none
Progress	create swap

The progress is at “**Create swap**” and is going to finish the disk building.



Device List

- RAID List
  - RAID A [Big Drive, 465.75 GB]
    - HDD1

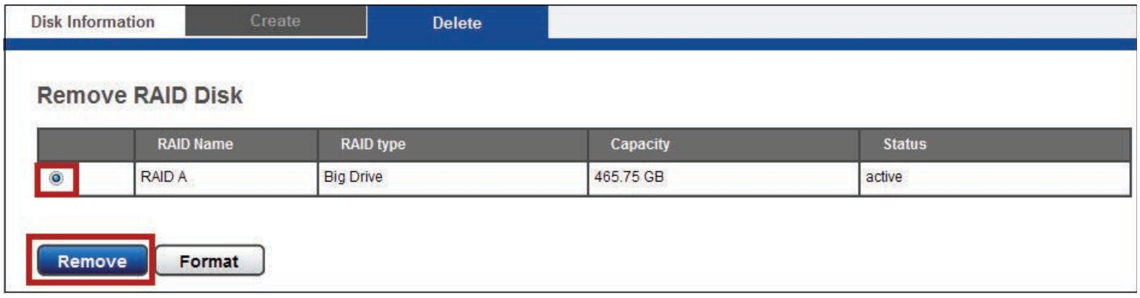
Device Information.

RAID Name	RAID A
Level	linear
Capacity	465.75 GB
Status	active
Action State	clean
Background Activity	none
Progress	none

Finally, the RAID disk building is complete.
After the RAID disk is created, RAID List shows RAID Name and available storage devices. Device Information provides the hard drive status: **RAID Name, Level, Capacity, Status-Active, Action State, Background Activity** and **Progress-none**.

- **Delete**

After the RAID Disk is created, a “**Delete**” option is available.
If users are going to delete a RAID disk, please refer to the following:


Disk Information
Create
Delete
Remove
Format

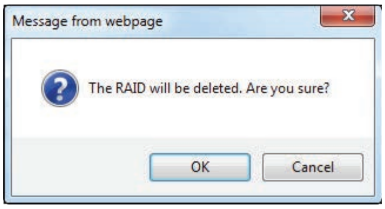
Remove RAID Disk

	RAID Name	RAID type	Capacity	Status
●	RAID A	Big Drive	465.75 GB	active

In the “**Delete**” option, users can remove, or format, RAID disks by selecting the **RAID disk**. In the table, **RAID Name, RAID type, Capacity** and **Status** are shown.

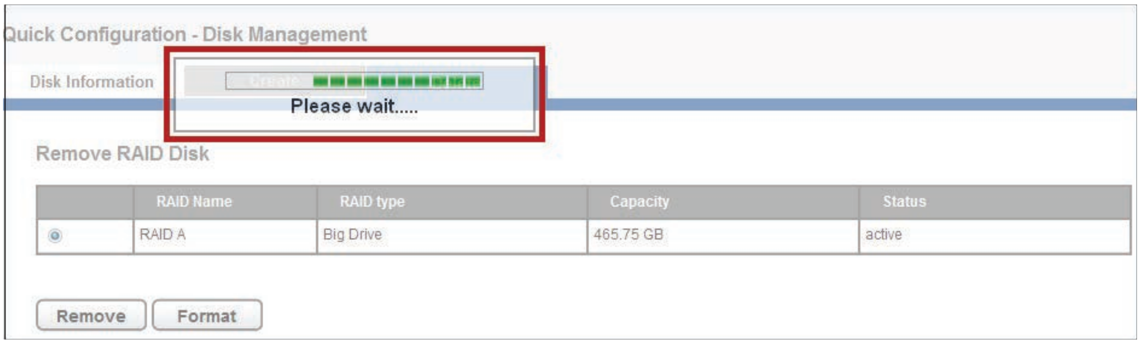
- **Remove**

  Click “**Remove**” to delete the RAID Disk. Once “**Remove**” is clicked, a window pops up to confirm the removal.


Message from webpage
OK
Cancel

The RAID will be deleted. Are you sure?

To delete the RAID Disk, click “**OK**” to proceed.

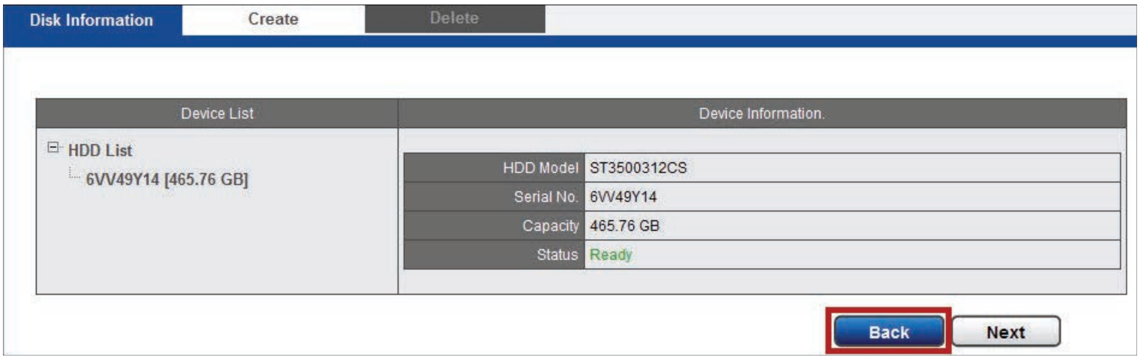

Quick Configuration - Disk Management
Disk Information
Create
Remove
Format

Please wait.....

Remove RAID Disk

	RAID Name	RAID type	Capacity	Status
●	RAID A	Big Drive	465.75 GB	active

Please wait. The deletion is in a process.


Disk Information
Create
Delete
Back
Next

Device List

HDD List
6VV49Y14 [465.76 GB]

Device Information.

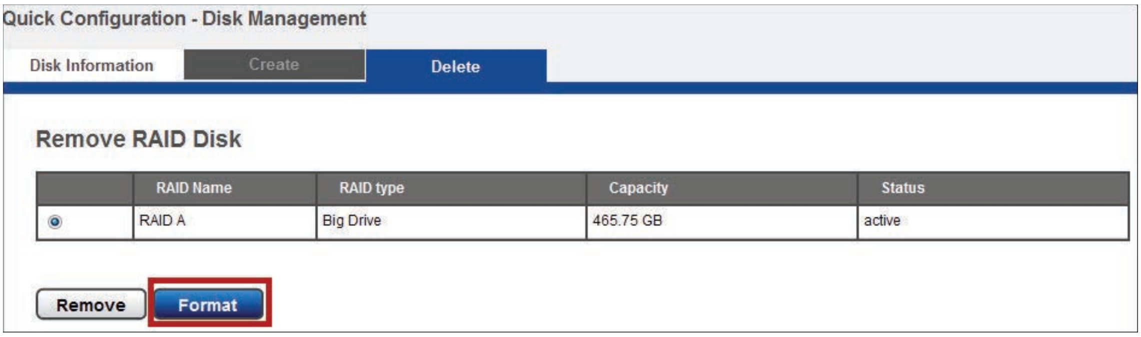
HDD Model	ST3500312CS
Serial No.	6VV49Y14
Capacity	465.76 GB
Status	Ready

If users want to change the RAID level setting, please click ‘‘Remove.’’ After the RAID Disk is removed the status in Device information shows “**Ready**” and users can go back to the Create page to configure the new RAID level.

⚠ **Note**: Once you remove the disk and recreate it, the recorded video will be formatted.

- **Format**

  Click “**Format**” to format the RAID disk. All recorded video is deleted.

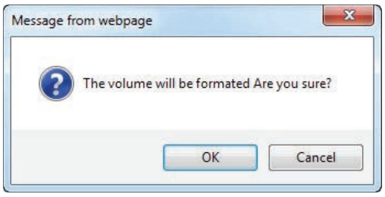

Disk Information
Create
Delete
Remove
Format

Quick Configuration - Disk Management

Remove RAID Disk

	RAID Name	RAID type	Capacity	Status
●	RAID A	Big Drive	465.75 GB	active

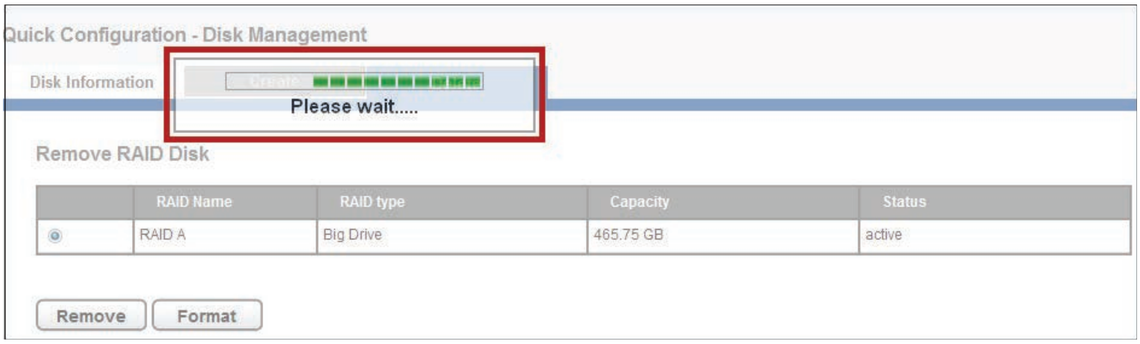
Once “**Format**” is clicked, a window pops up to confirm the command.



Message from webpage

The volume will be formated Are you sure?

To format the RAID disk, click “**OK**” to continue.


Quick Configuration - Disk Management
Disk Information
Create
Please wait.....

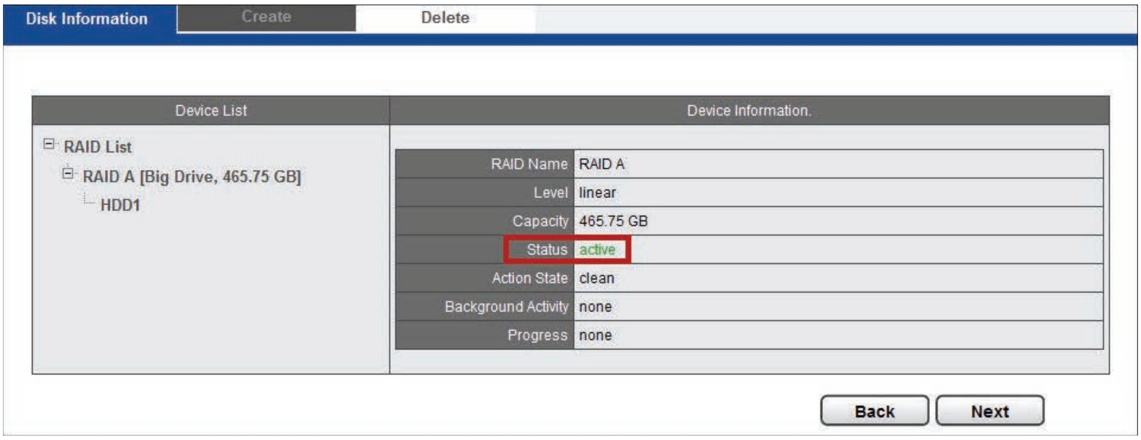
Remove RAID Disk

	RAID Name	RAID type	Capacity	Status
●	RAID A	Big Drive	465.75 GB	active

Remove
Format

Hard disk drive is formatting.

Please wait until **formatting is 100%**.


Disk Information
Create
Delete
Device List
Device Information.
RAID List
RAID A [Big Drive, 465.75 GB]
HDD1

RAID Name	RAID A
Level	linear
Capacity	465.75 GB
Status	active
Action State	clean
Background Activity	none
Progress	none

Back
Next

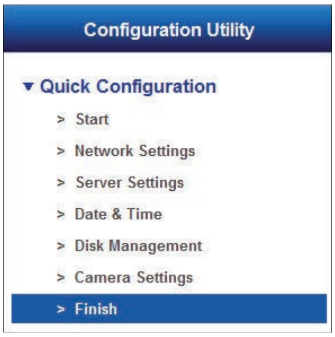
After the RAID disk is formatted, device Information status shows “**active**”.

Camera Settings

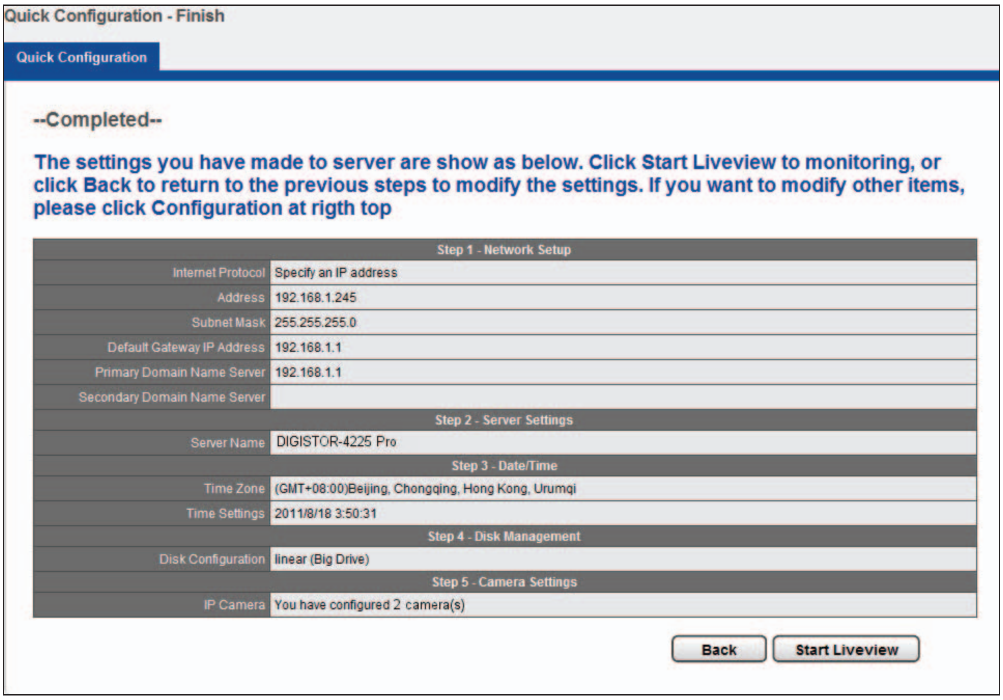
Please see Chapter 5 Configuration, 5.1 IP Camera.

Finish

Select “**Finish**” from the **Configuration Utility** drop-down menu to begin.


Configuration Utility
▾ Quick Configuration
> Start
> Network Settings
> Server Settings
> Date & Time
> Disk Management
> Camera Settings
> Finish

Once the five step Quick Configuration is complete, the window shows the completed status. You can click “**Back**” to return to the previous steps to modify the configuration or click “**Start Live view**” to start monitoring.



Quick Configuration - Finish

Quick Configuration

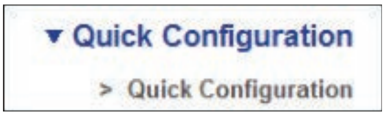
--Completed--

The settings you have made to server are show as below. Click Start Liveview to monitoring, or click Back to return to the previous steps to modify the settings. If you want to modify other items, please click Configuration at rigth top

Step 1 - Network Setup	
Internet Protocol	Specify an IP address
Address	192.168.1.245
Subnet Mask	255.255.255.0
Default Gateway IP Address	192.168.1.1
Primary Domain Name Server	192.168.1.1
Secondary Domain Name Server	
Step 2 - Server Settings	
Server Name	DIGISTOR-4225 Pro
Step 3 - Date/Time	
Time Zone	(GMT+08:00)Beijing, Chongqing, Hong Kong, Urumqi
Time Settings	2011/8/18 3:50:31
Step 4 - Disk Management	
Disk Configuration	linear (Big Drive)
Step 5 - Camera Settings	
IP Camera	You have configured 2 camera(s)

Back
Start Liveview

To review Quick Configuration settings or information users can also select “**Quick Configuration**” (top left of the Configuration main page).


▾ Quick Configuration
> Quick Configuration

3. Use NVRPRO with Local Display

The NVRPRO can be connected to a monitor via the HDMI and VGA connectors to execute quick configuration and display live view.

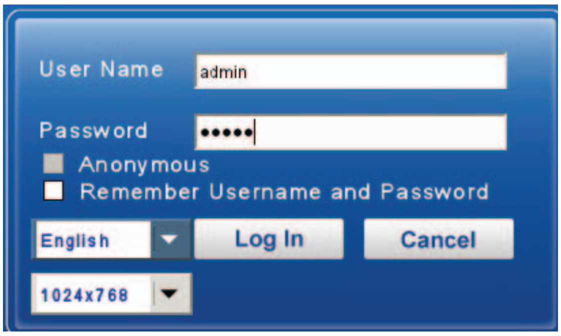
⚠ **Note**: The local display feature is supported by NVRPRO Series only.

To start local display, please follow the steps below:

1. Install at least one hard disk drive in your NVRPRO.
2. Connect NVRPRO and IP cameras to the network.
3. Make sure the HDMI or VGA monitor is connected to the interface (HDMI or VGA) on the NVRPRO rear panel.
4. Connect a USB mouse to the USB port of the NVRPRO.
5. Connect the power cord to turn on the NVRPRO.
6. When you enter the login interface of the NVRPRO, enter default user name “**admin**” and password “**admin**” and select the local language.

3.1 Login NVRPRO NVR

Users have to key in the correct username and password to login to the NVR.



User Name: admin

Password: •••••

☐ Anonymous

☐ Remember Username and Password

English

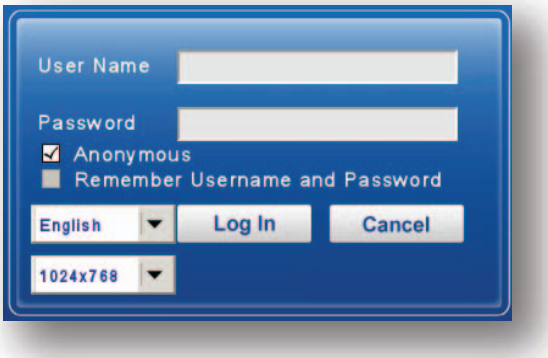
1024x768

Resolution:

Users can select the resolution 1920x1080 or 1024x768 in the login page, when the monitor supports both types of resolution.

Anonymous login

Anonymous login allows users to login without a username and password.


User Name
Password
Log In
Cancel

☑ Anonymous

☐ Remember Username and Password

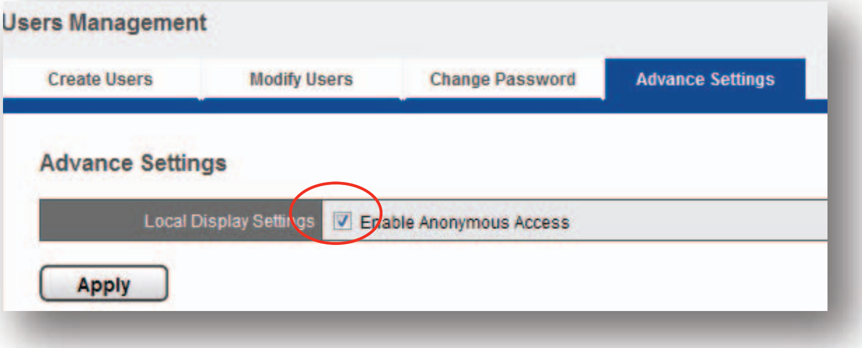
English

1024x768

Anonymous users can only view live monitoring and playback page in local monitor, and the configuration page is disabled. While an anonymous login is applied the system automatically logs in, after boot up, without the authorisation process.

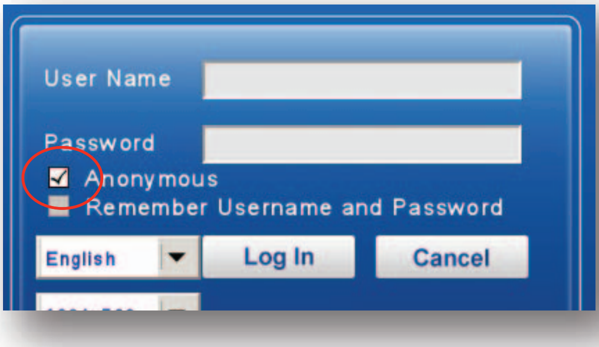
Start to setup the anonymous login

A. Go to the user management page of the remote web browser, and go to Advance Settings. Check the “Enable Anonymous Access“.


Users Management
Create Users
Modify Users
Change Password
Advance Settings
Advance Settings
Apply

Local Display Settings ☑ Enable Anonymous Access

B. Enable the “Anonymous” at the local display login page, and then login.


User Name
Password
Log In
Cancel

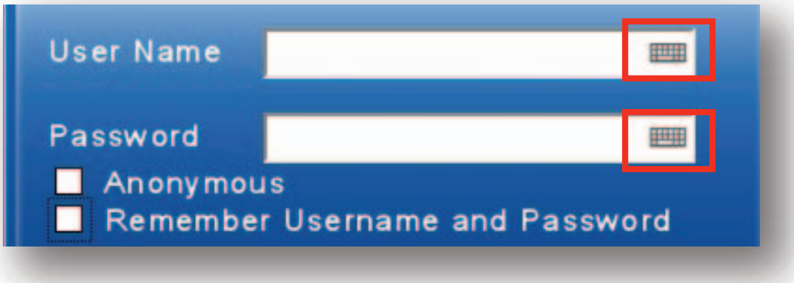
☑ Anonymous

☐ Remember Username and Password

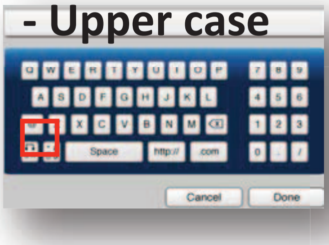
English

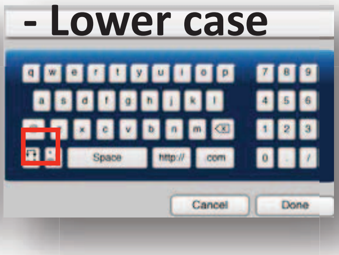
Virtual Keyboard

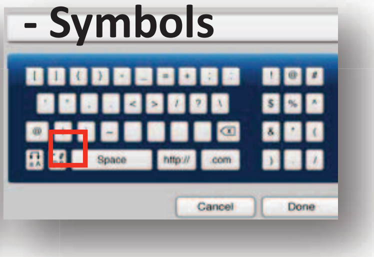
Users can choose to use a USB keyboard for typing in the NVRPRO local display, or use the virtual keyboard.
The virtual keyboard is enabled at the side of each column – see below.


User Name
Password
☐ Anonymous
☐ Remember Username and Password

There are 3 types of virtual keyboard which can be selected - Upper Case, Lower Case and Symbols.


- Upper case
Space
http://
.com
Cancel
Done


- Lower case
Space
http://
.com
Cancel
Done

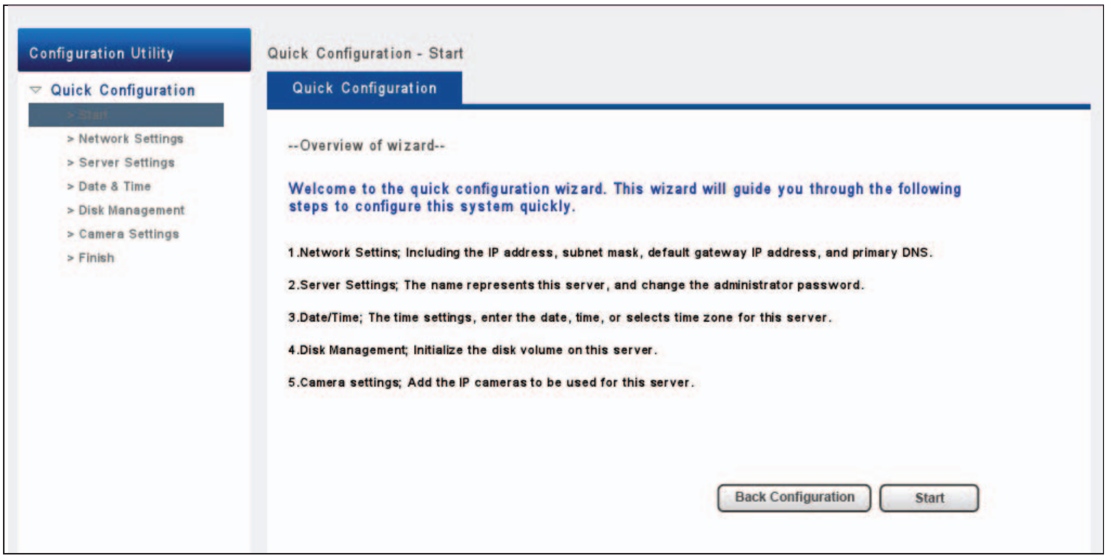

- Symbols
Space
http://
.com
Cancel
Done

3.1 Quick Configuration

After you login with a local display to the NVRPRO, the system directs you to set a Quick Configuration. Follow the instructions of the Wizard Overview to complete the system setup.
Please refer to chapter 2.3 Quick Configuration for more information.

Start

To begin, study the Wizard Overview and the wizard will guide you through five steps to configure the system.
Click “**Start**” in Overview of Wizard page to begin the Quick Configuration.


Configuration Utility
Quick Configuration
> Start
> Network Settings
> Server Settings
> Date & Time
> Disk Management
> Camera Settings
> Finish
Quick Configuration - Start
Quick Configuration
Back Configuration
Start

--Overview of wizard--

Welcome to the quick configuration wizard. This wizard will guide you through the following steps to configure this system quickly.

1.Network Settins; Including the IP address, subnet mask, default gateway IP address, and primary DNS.

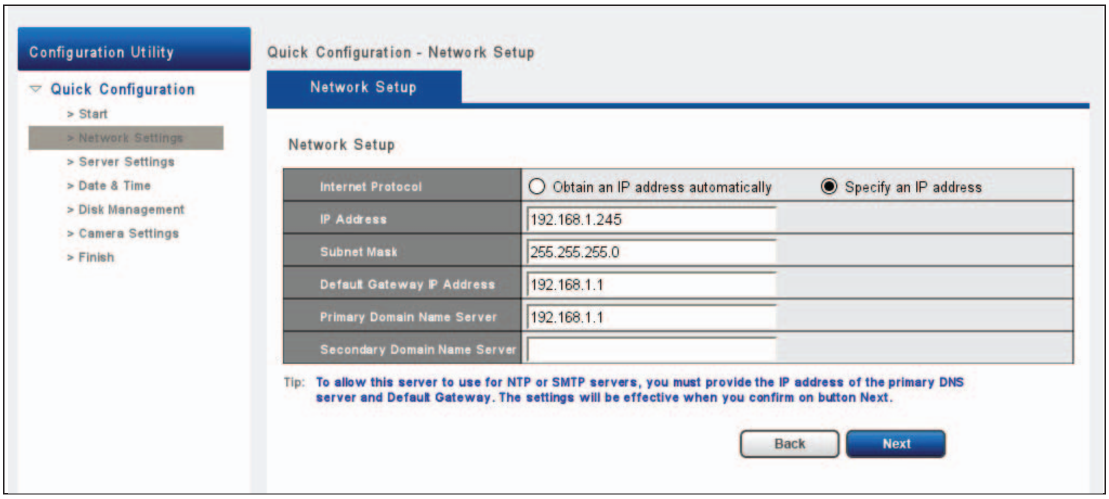
2.Server Settings; The name represents this server, and change the administrator password.

3.Date/Time; The time settings, enter the date, time, or selects time zone for this server.

4.Disk Management; Initialize the disk volume on this server.

5.Camera settings; Add the IP cameras to be used for this server.

Network Settings


Configuration Utility
Quick Configuration
> Start
> Network Settings
> Server Settings
> Date & Time
> Disk Management
> Camera Settings
> Finish
Quick Configuration - Network Setup
Network Setup
Back
Next

Network Setup

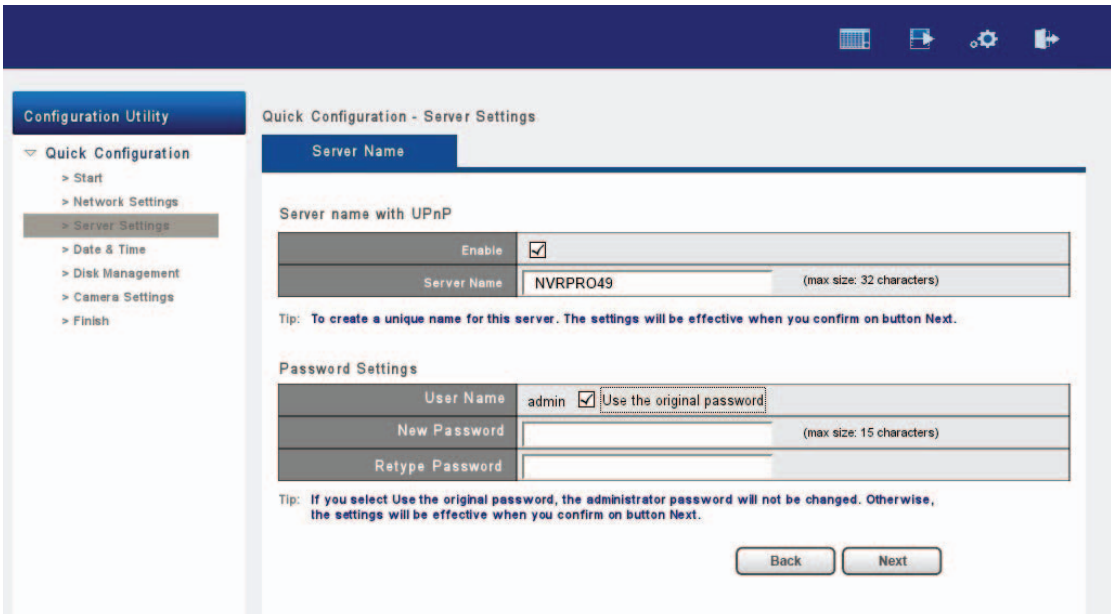
Internet Protocol	○ Obtain an IP address automatically ● Specify an IP address
IP Address	192.168.1.245
Subnet Mask	255.255.255.0
Default Gateway IP Address	192.168.1.1
Primary Domain Name Server	192.168.1.1
Secondary Domain Name Server	

Tip: To allow this server to use for NTP or SMTP servers, you must provide the IP address of the primary DNS server and Default Gateway. The settings will be effective when you confirm on button Next.

- **Obtain an IP address automatically**
  Obtain an available dynamic IP address assigned by a DHCP server.
- **Specify an IP address.**
  The static IP address can be assigned.

Click “**Next**” to proceed with the configuration.

Server Settings


Configuration Utility
Quick Configuration
> Start
> Network Settings
> Server Settings
> Date & Time
> Disk Management
> Camera Settings
> Finish
Server Name
Back
Next

Quick Configuration - Server Settings

Server name with UPnP

Enable	☑
Server Name	NVRPRO49 (max size: 32 characters)

Tip: To create a unique name for this server. The settings will be effective when you confirm on button Next.

Password Settings

User Name	admin ☑ Use the original password
New Password	(max size: 15 characters)
Retype Password	

Tip: If you select Use the original password, the administrator password will not be changed. Otherwise, the settings will be effective when you confirm on button Next.

- **Server name with UPnP**

Users can select to enable the UPnP function and edit the sever name. Once UPnP is enabled the NVRPRO can be searched on the intranet (LAN).

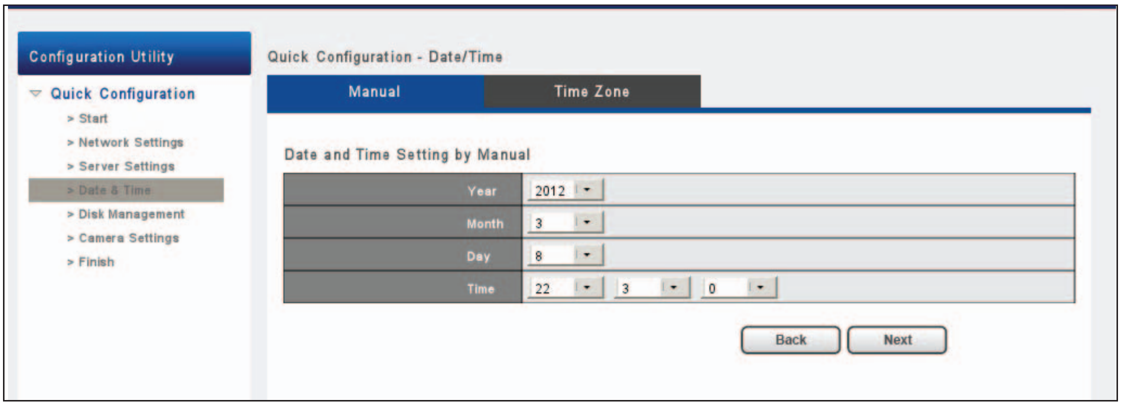
- **Password Settings**

Each NVRPRO comes with a built-in "**admin**" account with password "**admin.**" It's highly recommended the password is changed at initial login.

Date & Time

- **Manual setting**

Use the drop-down list and configure the time manually.


Configuration Utility
Quick Configuration
> Start
> Network Settings
> Server Settings
> Date & Time
> Disk Management
> Camera Settings
> Finish
Manual
Time Zone
Back
Next

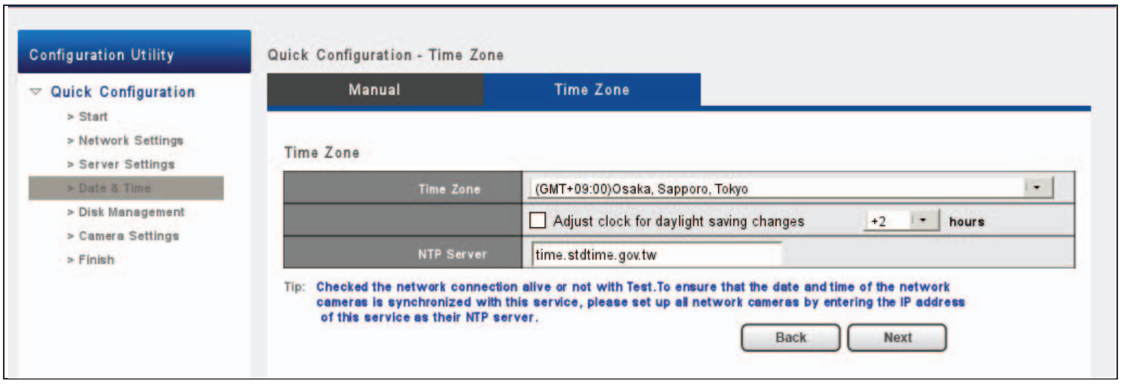
Quick Configuration - Date/Time

Date and Time Setting by Manual

Year	2012
Month	3
Day	8
Time	22 : 3 : 0

- **Time Zone: Synchronise automatically with an Internet Time Server.**

Select the time zone of your area and update the date and time of the NVRPRO automatically with an NTP server.


Configuration Utility
Quick Configuration
Start
Network Settings
Server Settings
Date & Time
Disk Management
Camera Settings
Finish
Manual
Time Zone
Back
Next

Quick Configuration - Time Zone

Time Zone

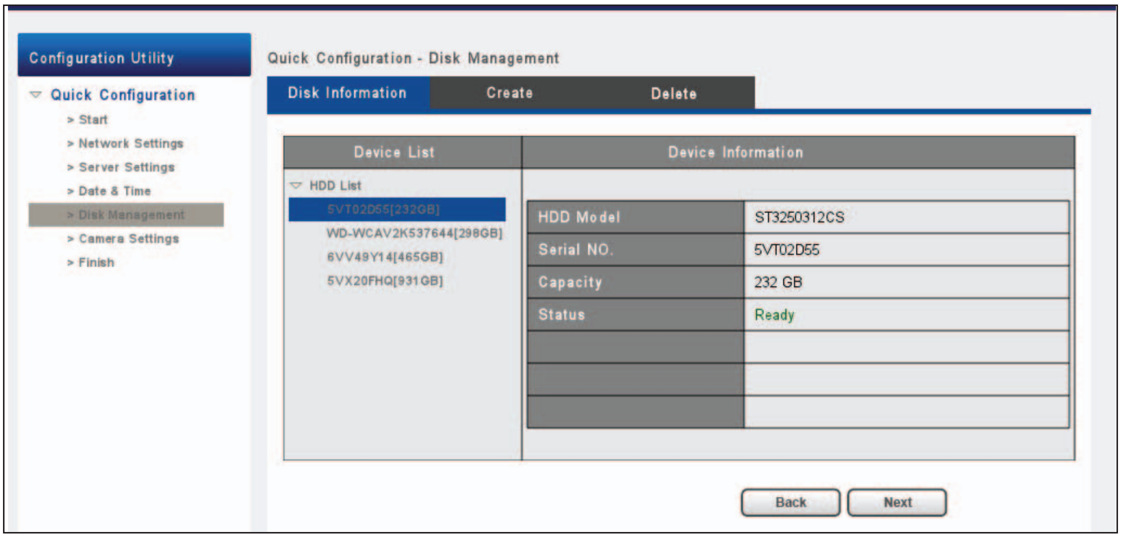
Time Zone	(GMT+09:00)Osaka, Sapporo, Tokyo
	☐ Adjust clock for daylight saving changes +2 hours
NTP Server	time.stdtime.gov.tw

Tip: Checked the network connection alive or not with Test.To ensure that the date and time of the network cameras is synchronized with this service, please set up all network cameras by entering the IP address of this service as their NTP server.

Click “**Next**” to continue configuration.

Disk Management

- **Disk Information**


Configuration Utility
Quick Configuration
Start
Network Settings
Server Settings
Date & Time
Disk Management
Camera Settings
Finish
Disk Information
Create
Delete
Back
Next

Quick Configuration - Disk Management

Device List

HDD List
5VT02D55[232GB]
WD-WCAV2K537644[298GB]
6VV49Y14[465GB]
5VX20FHQ[931GB]

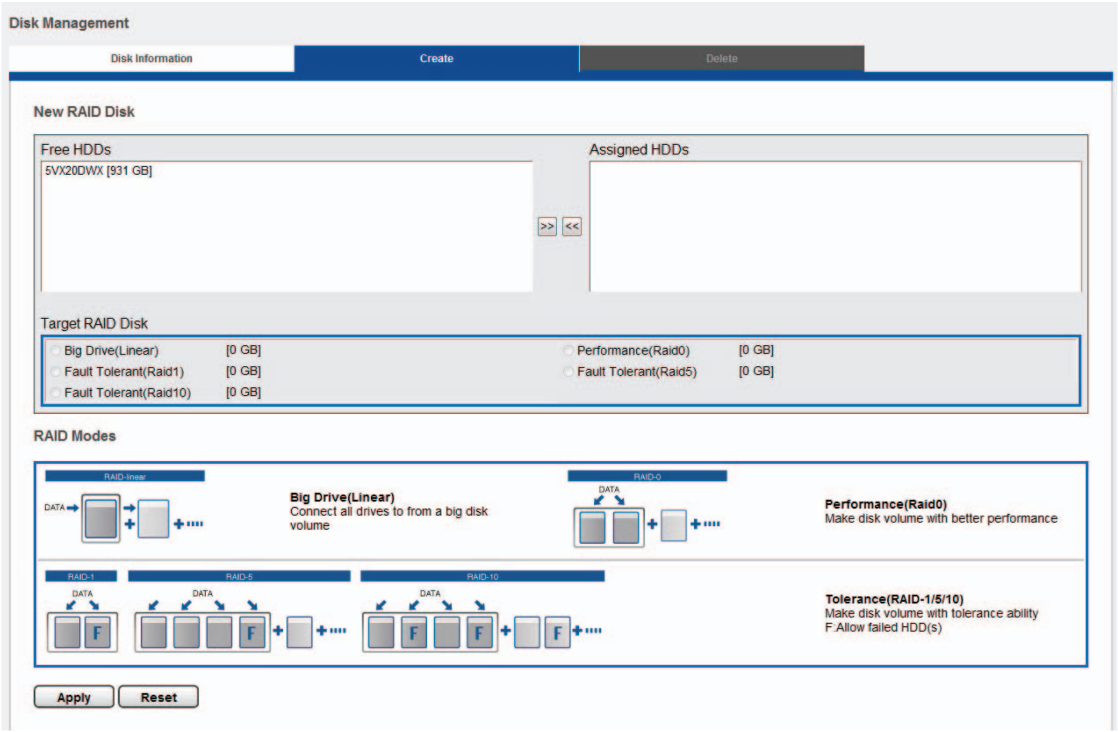
Device Information

HDD Model	ST3250312CS
Serial NO.	5VT02D55
Capacity	232 GB
Status	Ready

Device Information provides details of the hard disk drive: **HDD Model**, **Serial NO.**, **Capacity** and **Status**.

- **Create**

As a hard disk drive is available, the Device Information status shows “**Ready,**” which indicates the hard disk drive is ready to be created. Click “**Create**” to enter the window for building a new RAID Disk, and select the hard disk drive in the Free HDD’s field.


Disk Management
Disk Information
Create
Delete
>>
<<
RAID-linear
DATA
RAID-0
RAID-1
RAID-5
RAID-10
F
Apply
Reset

New RAID Disk

Free HDDs
5VX20DWX [931 GB]

Assigned HDDs

Target RAID Disk

○ Big Drive(Linear)	[0 GB]	○ Performance(Raid0)	[0 GB]
○ Fault Tolerant(Raid1)	[0 GB]	○ Fault Tolerant(Raid5)	[0 GB]
○ Fault Tolerant(Raid10)	[0 GB]		

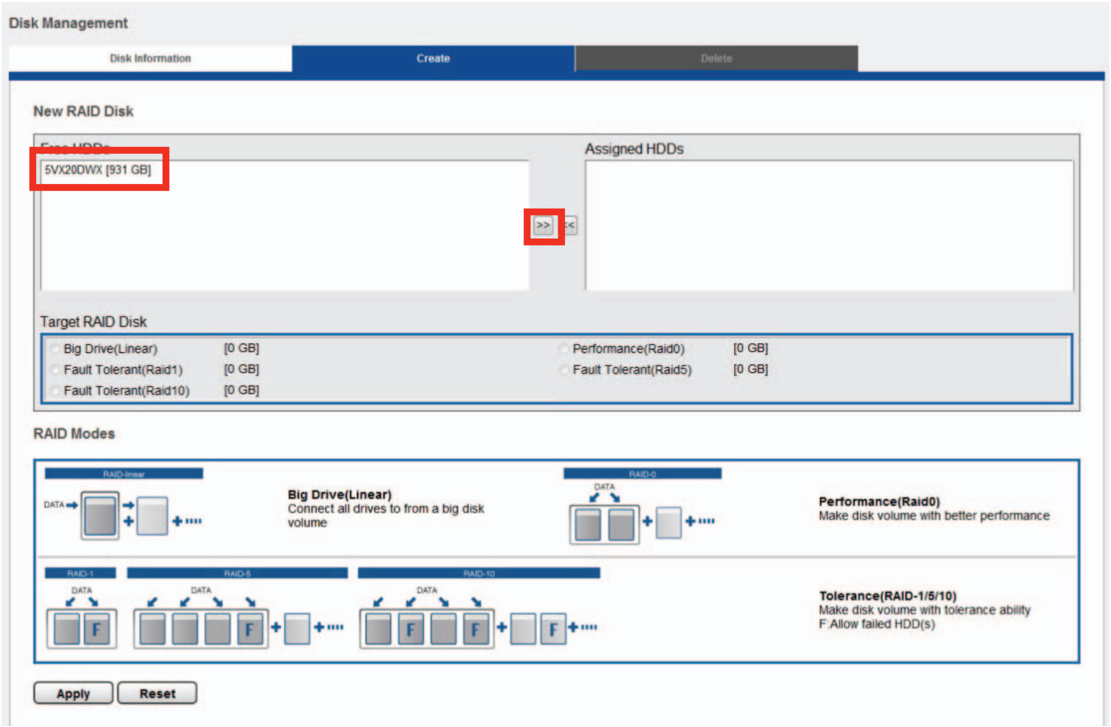
RAID Modes

Big Drive(Linear)
Connect all drives to from a big disk volume

Performance(Raid0)
Make disk volume with better performance

Tolerance(RAID-1/5/10)
Make disk volume with tolerance ability
F:Allow failed HDD(s)

The selected hard disk drive in the Free HDD’s field is highlighted, click >> to transfer the hard disk drive into Assigned HDD’s field.


Disk Management
Disk Information
Create
Delete
>>
<<
RAID-linear
DATA
RAID-0
RAID-1
RAID-5
RAID-10
F
Apply
Reset

New RAID Disk

Free HDDs
5VX20DWX [931 GB]

Assigned HDDs

Target RAID Disk

○ Big Drive(Linear)	[0 GB]	○ Performance(Raid0)	[0 GB]
○ Fault Tolerant(Raid1)	[0 GB]	○ Fault Tolerant(Raid5)	[0 GB]
○ Fault Tolerant(Raid10)	[0 GB]		

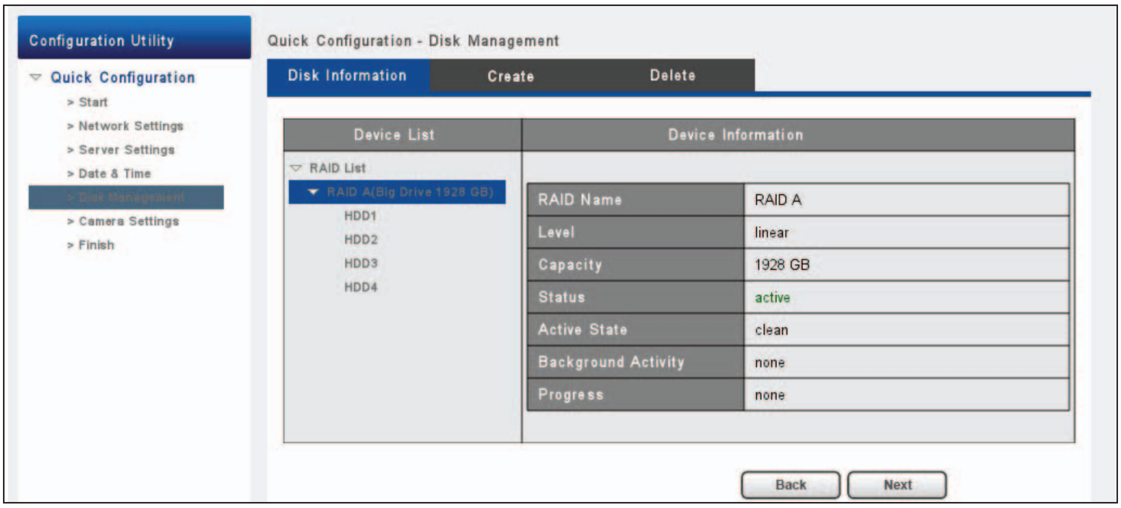
RAID Modes

Big Drive(Linear)
Connect all drives to from a big disk volume

Performance(Raid0)
Make disk volume with better performance

Tolerance(RAID-1/5/10)
Make disk volume with tolerance ability
F:Allow failed HDD(s)

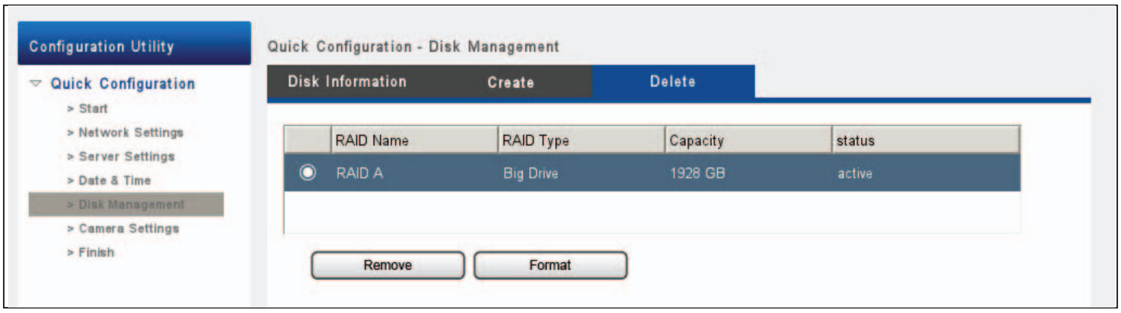
The selected hard disk drive in Assigned HDD's field is highlighted in blue. Select a type of disk configuration, and click "**Apply**".
After the RAID disk is created, RAID List shows the RAID Name and available storage devices.


Configuration Utility
Quick Configuration
> Start
> Network Settings
> Server Settings
> Date & Time
> Disk Management
> Camera Settings
> Finish
Quick Configuration - Disk Management
Disk Information
Create
Delete
Device List
Device Information
RAID List
RAID A(Big Drive 1928 GB)
HDD1
HDD2
HDD3
HDD4
Back
Next

RAID Name	RAID A
Level	linear
Capacity	1928 GB
Status	active
Active State	clean
Background Activity	none
Progress	none

- **Delete**

In the "**Delete**" option users can remove, or format, a RAID disk.


Configuration Utility
Quick Configuration
> Start
> Network Settings
> Server Settings
> Date & Time
> Disk Management
> Camera Settings
> Finish
Quick Configuration - Disk Management
Disk Information
Create
Delete
Remove
Format

	RAID Name	RAID Type	Capacity	status
◉	RAID A	Big Drive	1928 GB	active

- **Remove**

If users want to change the RAID level setting, click "Remove." After the RAID Disk is removed the Device information status shows "**Ready**". Users can return to the Create page to configure the new RAID level configuration.

- **Format**

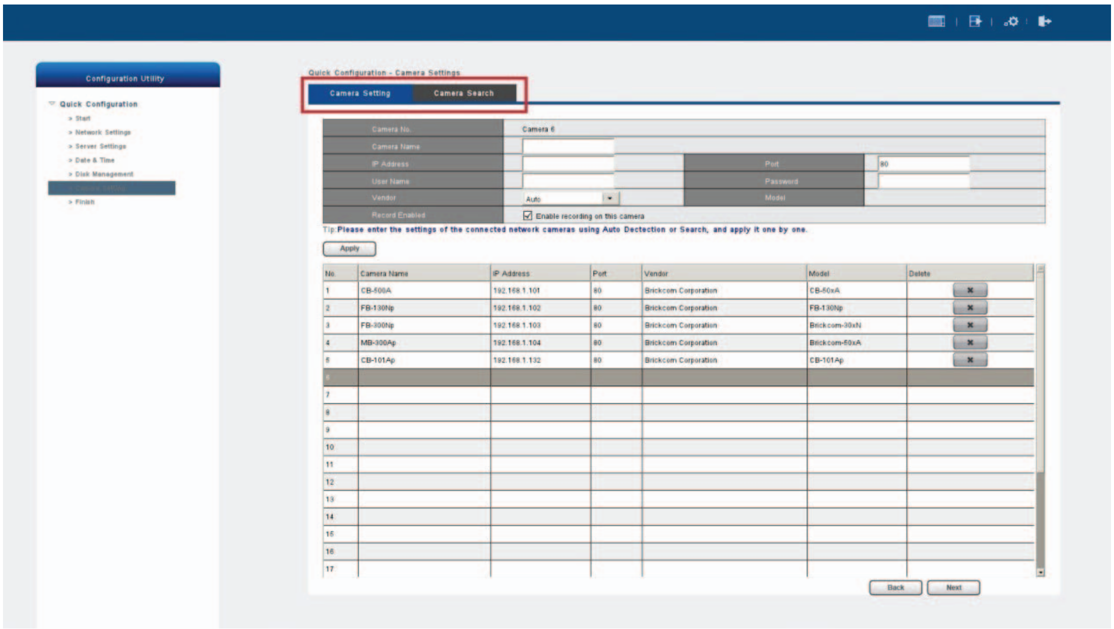
Click "**Format**" to format the RAID disk. All recorded video is deleted.

Camera Settings

Camera settings

Two options for adding a new camera are provided.

1. **Camera Search**
2. **Auto Detection**


Configuration Utility
Quick Configuration
Start
Network Settings
Server Settings
Date & Time
Disk Management
Camera Settings
Finish
Quick Configuration - Camera Settings
Camera Setting
Camera Search
Apply
Back
Next

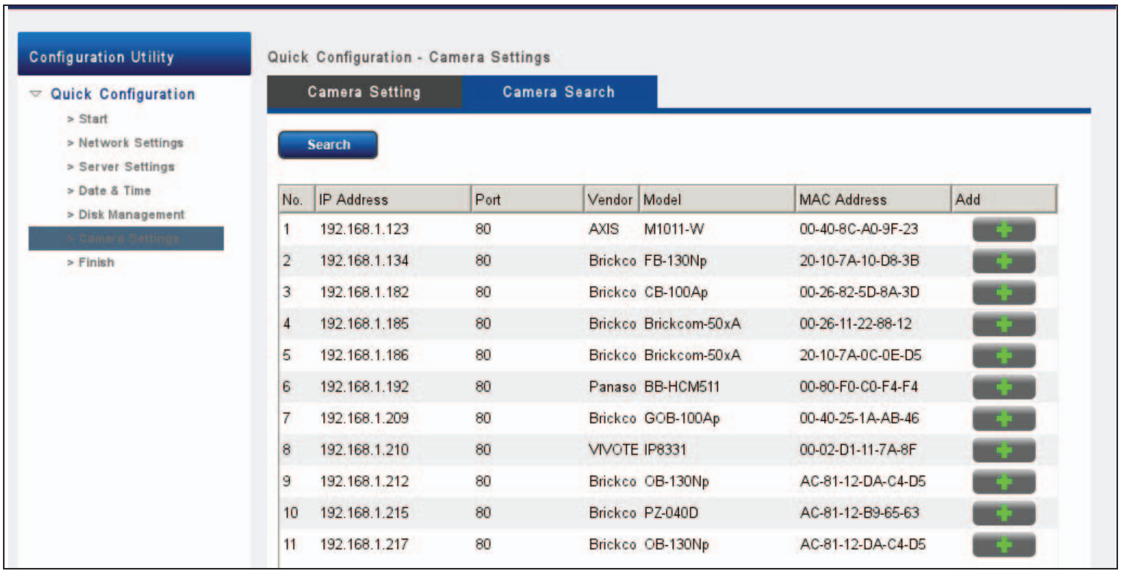
Camera No.: Camera 6
Camera Name:
IP Address:
Port: 80
User Name:
Password:
Vendor: Auto
Model:
Record Enabled: ☑ Enable recording on this camera

Tip:Please enter the settings of the connected network cameras using Auto Dectection or Search, and apply it one by one.

No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1	CB-500A	192.168.1.101	80	Brickcom Corporation	CB-50xA	✖
2	FB-130Np	192.168.1.102	80	Brickcom Corporation	FB-130Np	✖
3	FB-300Np	192.168.1.103	80	Brickcom Corporation	Brickcom-30xN	✖
4	MB-300Ap	192.168.1.104	80	Brickcom Corporation	Brickcom-50xA	✖
5	CB-101Ap	192.168.1.132	80	Brickcom Corporation	CB-101Ap	✖
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

1. Camera Search:

Click "**Search**" to find the UPnP devices within the LAN.

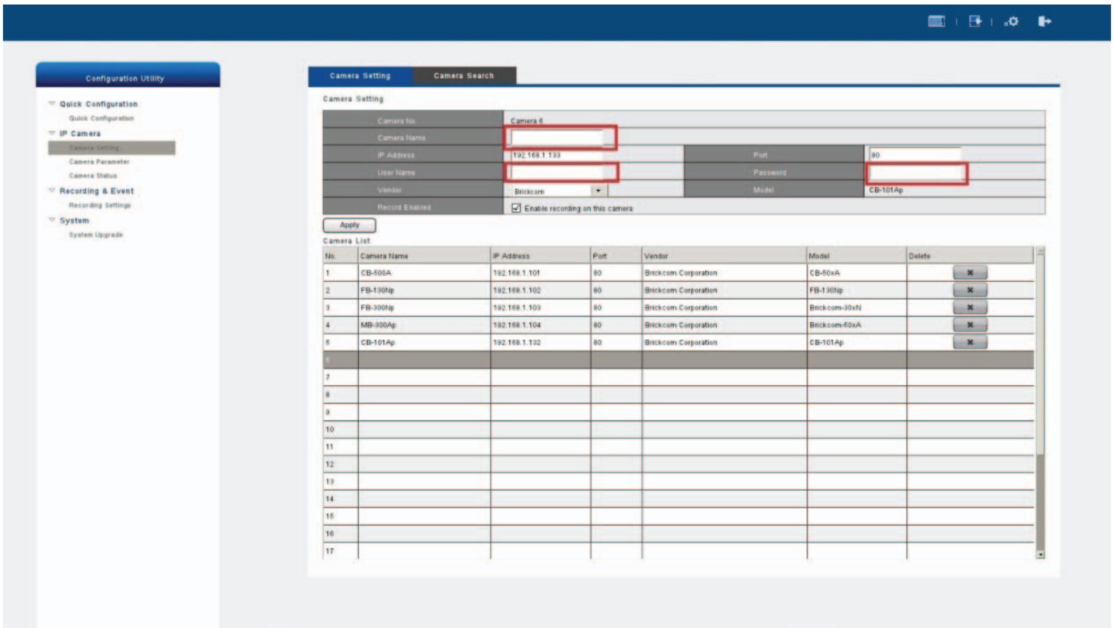

Configuration Utility
Quick Configuration
Start
Network Settings
Server Settings
Date & Time
Disk Management
Camera Settings
Finish
Quick Configuration - Camera Settings
Camera Setting
Camera Search
Search

No.	IP Address	Port	Vendor	Model	MAC Address	Add
1	192.168.1.123	80	AXIS	M1011-W	00-40-8C-A0-9F-23	+
2	192.168.1.134	80	Brickco	FB-130Np	20-10-7A-10-D8-3B	+
3	192.168.1.182	80	Brickco	CB-100Ap	00-26-82-5D-8A-3D	+
4	192.168.1.185	80	Brickco	Brickcom-50xA	00-26-11-22-88-12	+
5	192.168.1.186	80	Brickco	Brickcom-50xA	20-10-7A-0C-0E-D5	+
6	192.168.1.192	80	Panaso	BB-HCM511	00-80-F0-C0-F4-F4	+
7	192.168.1.209	80	Brickco	GOB-100Ap	00-40-25-1A-AB-46	+
8	192.168.1.210	80	VIVOTE	IP8331	00-02-D1-11-7A-8F	+
9	192.168.1.212	80	Brickco	OB-130Np	AC-81-12-DA-C4-D5	+
10	192.168.1.215	80	Brickco	PZ-040D	AC-81-12-B9-65-63	+
11	192.168.1.217	80	Brickco	OB-130Np	AC-81-12-DA-C4-D5	+

Add cameras by clicking "**+**" from the list one by one.

Users should manually enter **Camera Name**, **User Name**, and **Password.**

Then click “**apply**” to submit the settings.


Configuration Utility
Quick Configuration
Quick Configuration
IP Camera
Camera Setting
Camera Parameter
Camera Status
Recording & Event
Recording Settings
System
System Upgrade
Camera Setting
Camera Search
Apply
Delete

Camera Setting

Camera No.: Camera 6
Camera Name:
IP Address: 192.168.1.133
Port: 80
User Name:
Password:
Vendor: Brickcom
Model: CB-101Ap
Record Enabled: ☑ Enable recording on this camera

Camera List

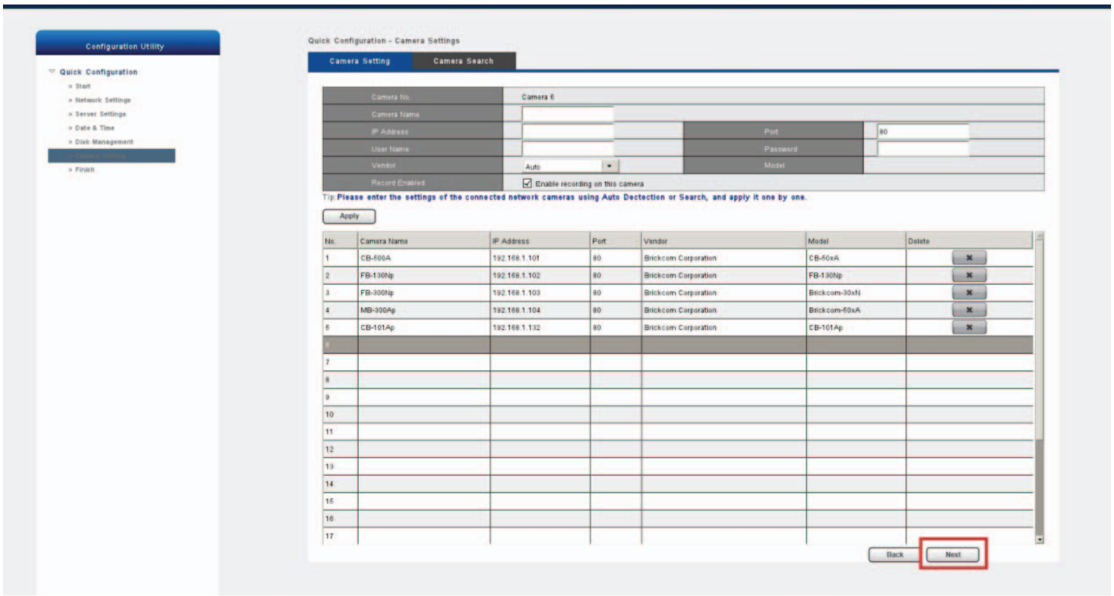
No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1	CB-500A	192.168.1.101	80	Brickcom Corporation	CB-50xA	✖
2	FB-130Np	192.168.1.102	80	Brickcom Corporation	FB-130Np	✖
3	FB-300Np	192.168.1.103	80	Brickcom Corporation	Brickcom-30xN	✖
4	MB-300Ap	192.168.1.104	80	Brickcom Corporation	Brickcom-50xA	✖
5	CB-101Ap	192.168.1.132	80	Brickcom Corporation	CB-101Ap	✖
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

Applied cameras will be shown in the Camera List.

2. Auto Detection:

Manually enter the **Camera Name, IP Address, User Name**, **Password** and select the **vendor** or **Auto**, then click “**Apply**” to start connecting to the IP camera.

All applied cameras will be shown in Camera List. Click “**Next**” to proceed.


Configuration Utility
Quick Configuration
> Start
> Network Settings
> Server Settings
> Date & Time
> Disk Management
> Camera Setting
> Finish
Camera Setting
Camera Search
Apply
Delete
Back
Next

Quick Configuration - Camera Settings

Camera No.: Camera 6
Camera Name:
IP Address:
Port: 80
User Name:
Password:
Vendor: Auto
Model:
Record Enabled: ☑ Enable recording on this camera

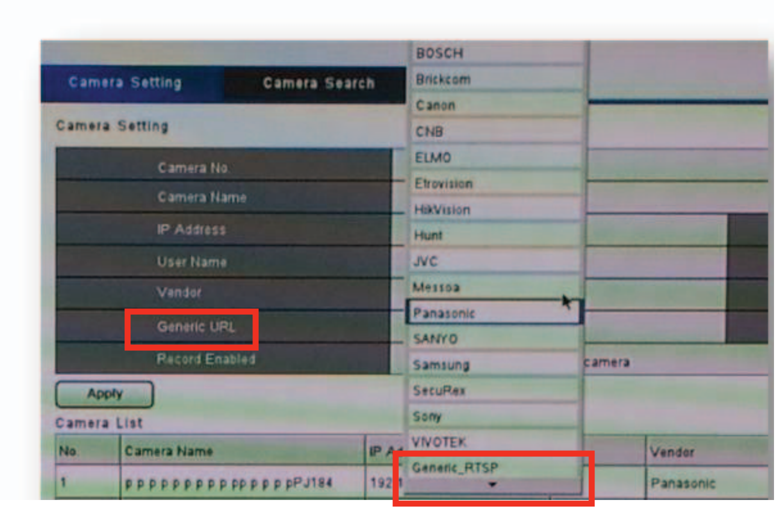
Tip:Please enter the settings of the connected network cameras using Auto Dectection or Search, and apply it one by one.

No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1	CB-500A	192.168.1.101	80	Brickcom Corporation	CB-50xA	✖
2	FB-130Np	192.168.1.102	80	Brickcom Corporation	FB-130Np	✖
3	FB-300Np	192.168.1.103	80	Brickcom Corporation	Brickcom-30xN	✖
4	MB-300Ap	192.168.1.104	80	Brickcom Corporation	Brickcom-50xA	✖
5	CB-101Ap	192.168.1.132	80	Brickcom Corporation	CB-101Ap	✖
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

Generic RTSP/ Generic MJPEG

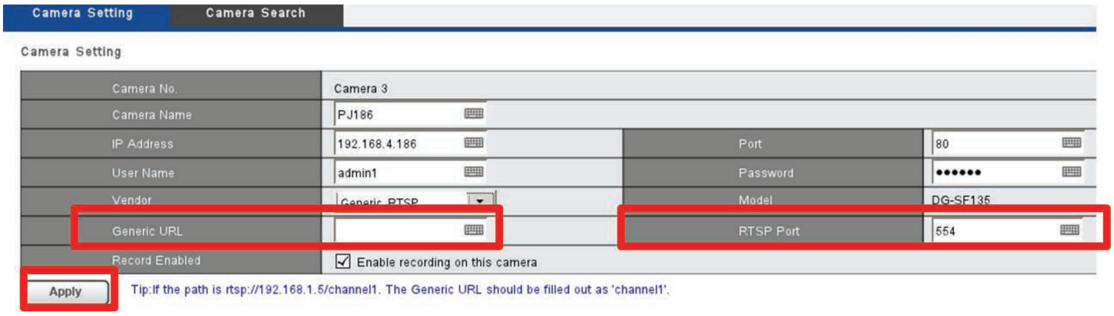
NVRPRO NVR provides the interface for users to enter the RTSP/ MJPEG URL’s of IP cameras in order to receive the video streaming from them. The streaming can be used in live view, recording (recording) and playback.

Generic RTSP and Generic MJPEG functions can be selected in the vendor list of the camera setting page.


Camera Setting
Camera Search
Camera Setting
Camera No.
Camera Name
IP Address
User Name
Vendor
Generic URL
Record Enabled
Apply
Camera List
No
Camera Name
IP A
Vendor
1
pppppppppppppppPJ184
192
Panasonic
camera
BOSCH
Brickcom
Canon
CNB
ELMO
Etrovision
HikVision
Hunt
JVC
Messoa
Panasonic
SANYO
Samsung
SecuRex
Sony
VIVOTEK
Generic_RTSP

Continue by entering the Generic URL column with the correct RTSP or MJPEG URL’s.

If Generic RTSP method is selected, the RTSP port should be filled out too. Click “apply” to submit the settings.


Camera Setting
Camera Search
Camera Setting
Apply

Camera No.	Camera 3		
Camera Name	PJ186		
IP Address	192.168.4.186	Port	80
User Name	admin1	Password	••••••
Vendor	Generic_RTSP	Model	DG-SF135
Generic URL		RTSP Port	554
Record Enabled	☑ Enable recording on this camera		

Tip:If the path is rtsp://192.168.1.5/channel1. The Generic URL should be filled out as 'channel1'.

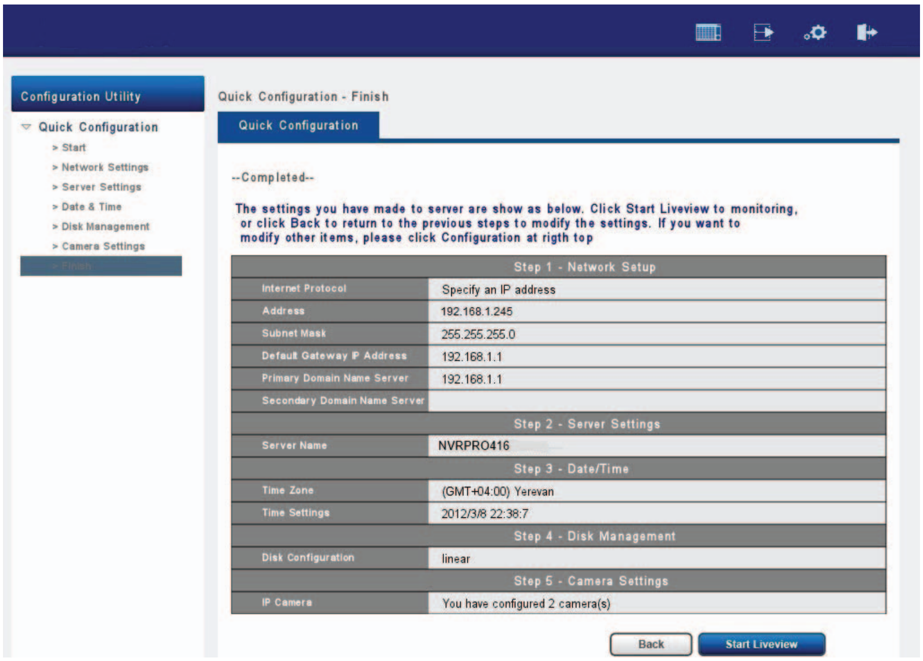
⚠The correct URLs should be provided from each camera vendors.

⚠Users may also refer to websites

- https://www.soleratec.com/rtsp/`
- http://www.ispyconnect.com/sources.aspx

Finish

Once the five step Quick Configuration is complete, the window shows a completed status.


Configuration Utility
Quick Configuration
> Start
> Network Settings
> Server Settings
> Date & Time
> Disk Management
> Camera Settings
> Finish
Quick Configuration - Finish
Quick Configuration
Back
Start Liveview

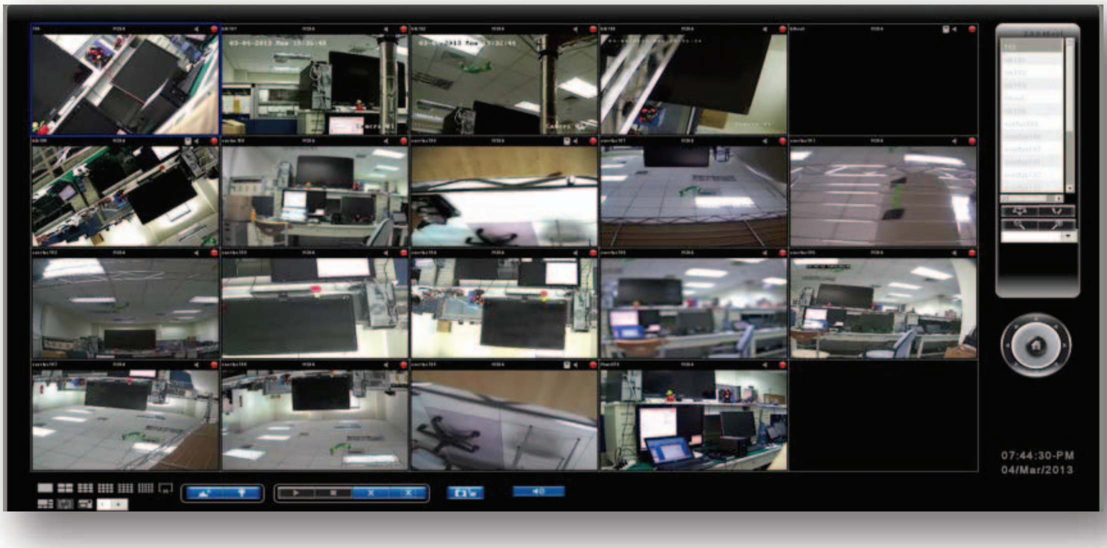
--Completed--

The settings you have made to server are show as below. Click Start Liveview to monitoring, or click Back to return to the previous steps to modify the settings. If you want to modify other items, please click Configuration at rigth top

Step 1 - Network Setup	
Internet Protocol	Specify an IP address
Address	192.168.1.245
Subnet Mask	255.255.255.0
Default Gateway IP Address	192.168.1.1
Primary Domain Name Server	192.168.1.1
Secondary Domain Name Server	
Step 2 - Server Settings	
Server Name	NVRPRO416
Step 3 - Date/Time	
Time Zone	(GMT+04:00) Yerevan
Time Settings	2012/3/8 22:38:7
Step 4 - Disk Management	
Disk Configuration	linear
Step 5 - Camera Settings	
IP Camera	You have configured 2 camera(s)

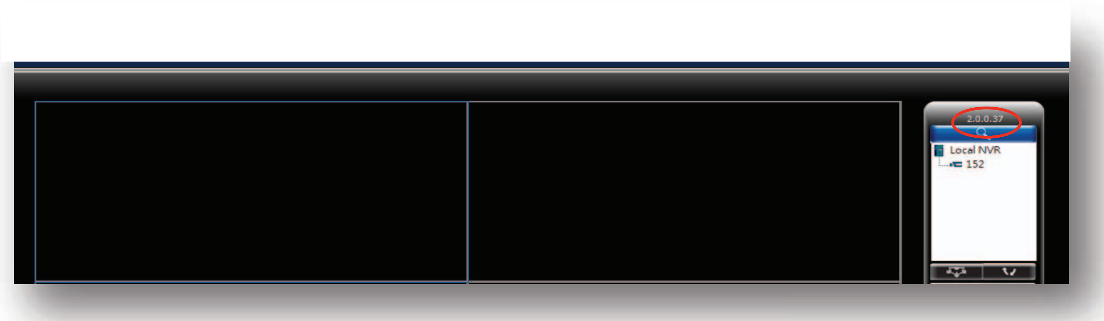
3.2 Live View

After the Quick Configuration is complete, users can successfully monitor IP cameras. In the live view page, users can monitor cameras in various display modes and control PTZ cameras.



Firmware version

Users can see the firmware version in the live view page



On the top right of live view, users can select four different view modes.

Mode	Description
▦	**Live View**: Click “**Live View**” to view live video feeds.
▶	**Playback**: Click “**Playback**” to playback and export the recorded video files.
⚙	**Configuration**: Click “**Configuration**” to configure camera, recording, event, management, network, quick configuration and system.

	Logout: To leave the NVRPRO click “**Logout**.”

Display Mode

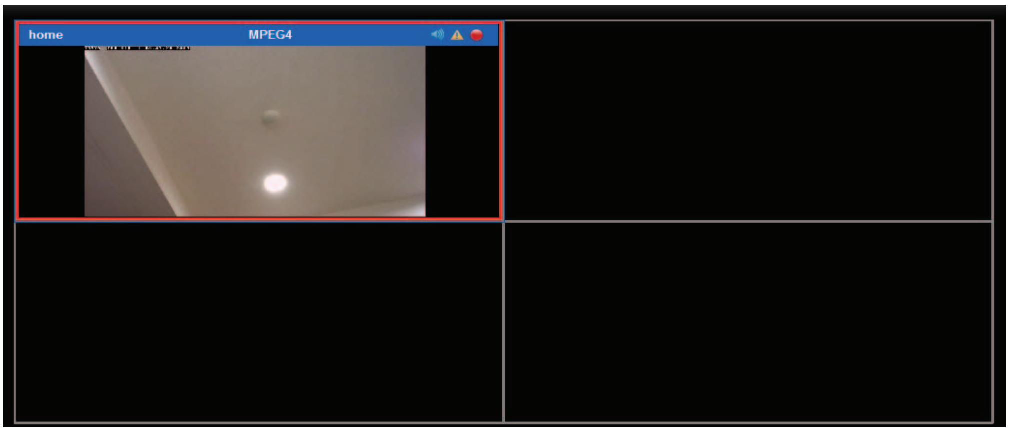
The NVRPRO supports multi-display monitoring modes. Click the display mode icon to monitor live view. When you click a display mode the icon turns blue.

Icon	Description
	Full Screen
	1 Screen
	4 Screens
	9 Screens
	12 Screens
	16 Screens
	20 Screens
25	25 Screens
	5+1 Screens
	Sequential Mode

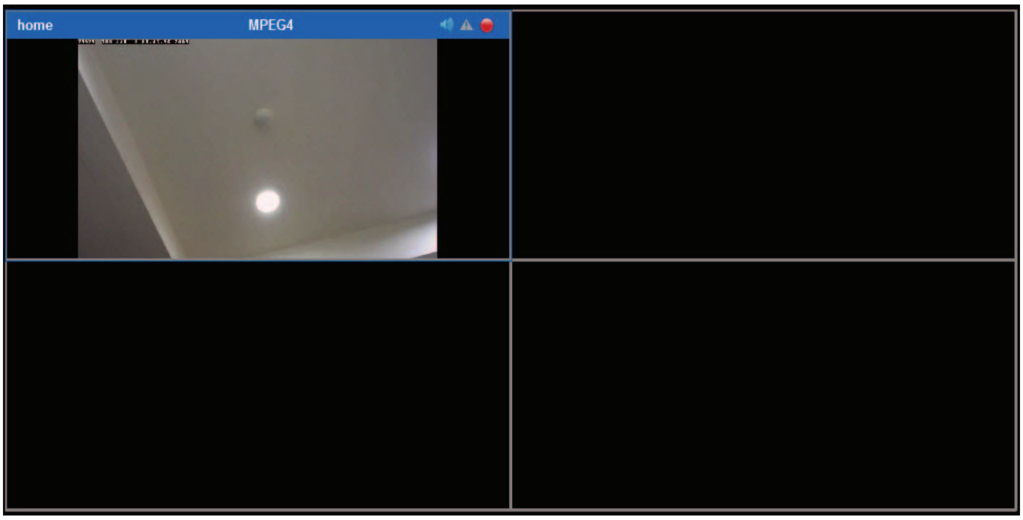
Icon	Description
▶	**Play**: Start monitoring.
■	**Stop**: Stop monitoring.
X	**Drop**: Drop the camera from monitoring.
X	**Drop all**: Drop all cameras from monitoring.

Warning frame

A red warning frame is shown on the channel when a motion event is detected.



When the motion event is highlighted simply click on the channel with a mouse and the warning frame is removed.



Warning frames can be enabled/disabled, refer to Chapter 4. 1.2

PTZ Control Panel

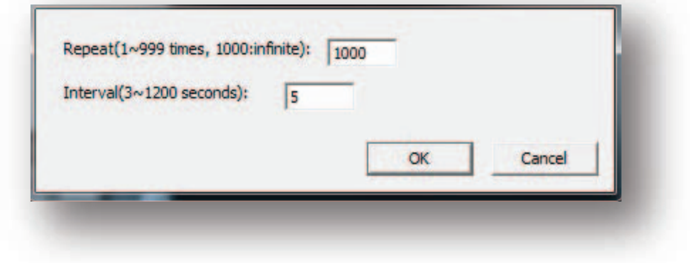
If the IP camera supports PTZ function, users can use the control panel to adjust the viewing angle. The following functions are available - depending on the camera models.

Icon	Description
	PTZ Panel: A PTZ allows users to monitor large areas with a single network camera. Pan, tilt, and zoom functions can be controlled remotely. If the device supports PTZ control, users can click on the arrows to pan and/or tilt the camera. The house icon in the middle takes you back to the original monitoring position.

Preset Positions:
Select the preset positions which are defined in the PTZ camera and the camera moves to the position selected.

Optical Zoom Out/ Optical Zoom In:
If a camera supports PTZ control, adjust the PTZ camera to zoom out or zoom in.

Schedule for PTZ:
Select “**Set**” to set camera preset position.
It opens the dialogue box for setting how many times PTZ repeats and how many seconds to stay between each preset point.

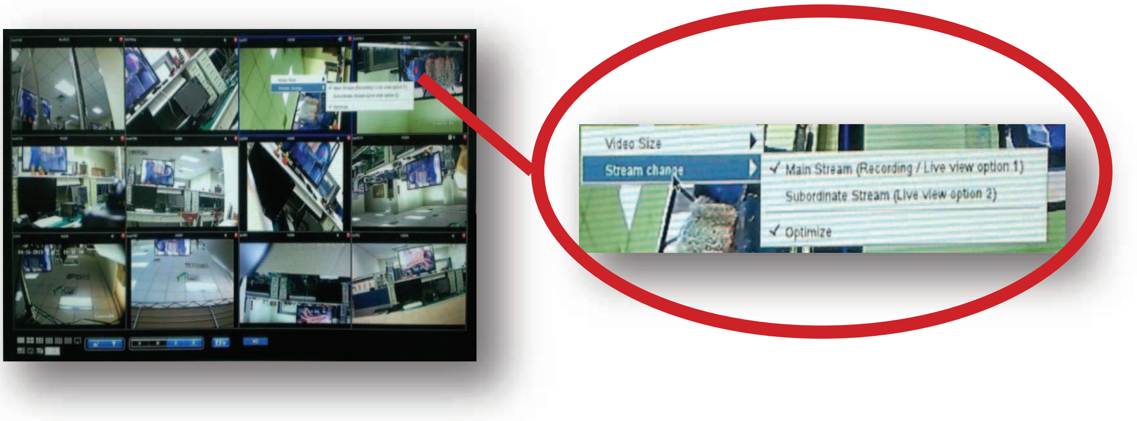

Repeat(1~999 times, 1000:infinite): 1000
Interval(3~1200 seconds): 5

Schedule for PTZ:
Click “**Go**” to start PTZ patrol schedule.

Exchange Streaming Type

NVRPRO allows users to setup dual streaming configurations in the camera parameters page (if cameras support dual stream). It is suggested stream 1 is set for a higher resolution than stream 2.

To switch to a different streaming option users can select the channel in the live view page and right click the mouse to have the options displayed.

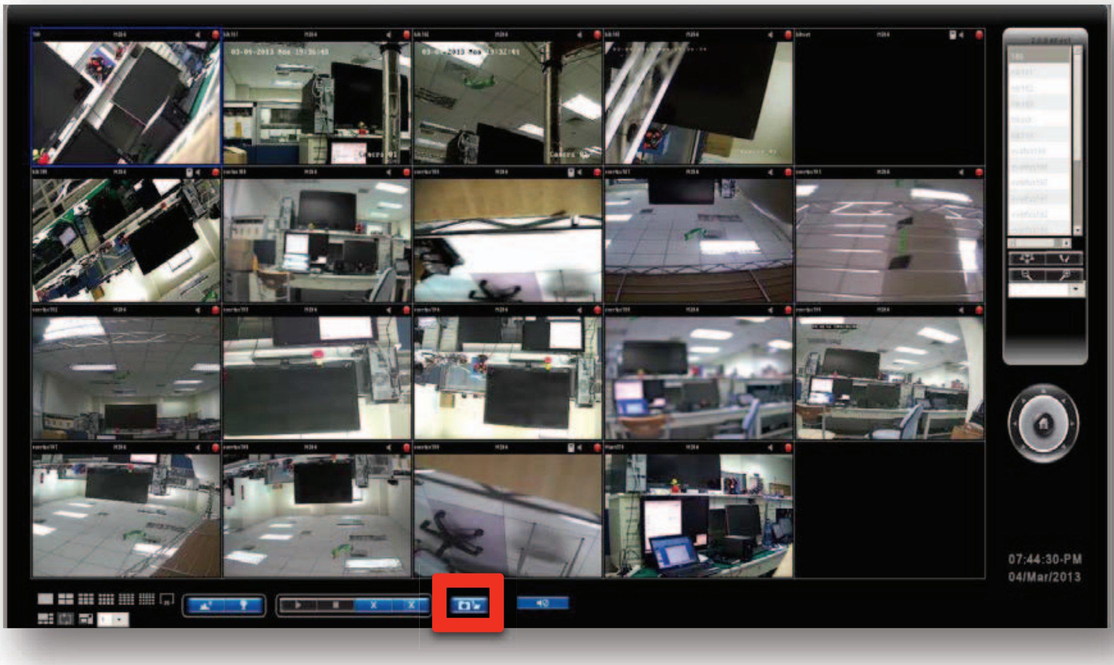

Video Size
Stream change
✓ Main Stream (Recording / Live view option 1)
Subordinate Stream (Live view option 2)
✓ Optimize

When “Optimize” is enabled, the streaming type is adjusted automatically in different display modes

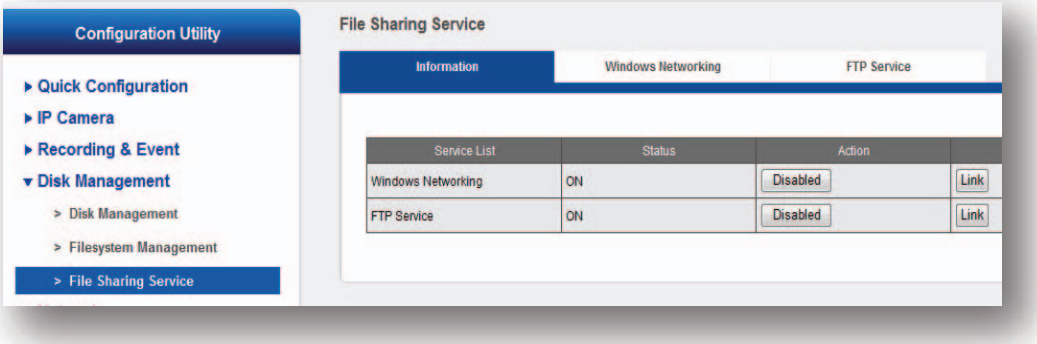
If “Optimize” is disabled, the streaming type can be adjusted and memorised for different display modes

Snapshot of live view in local display

Snapshot in live view allows users to capture the live view image in local display.



The snapshot image can be found in the folder – **Public/liveview_snapshot**, and be accessed through **Windows Networking** or **FTP** service at File Sharing service in the Configuration page.



Configuration Utility

- Quick Configuration
- IP Camera
- Recording & Event
- Disk Management
  - Disk Management
  - Filesystem Management
  - File Sharing Service

File Sharing Service

Information | Windows Networking | FTP Service

Service List	Status	Action	
Windows Networking	ON	Disabled	Link
FTP Service	ON	Disabled	Link

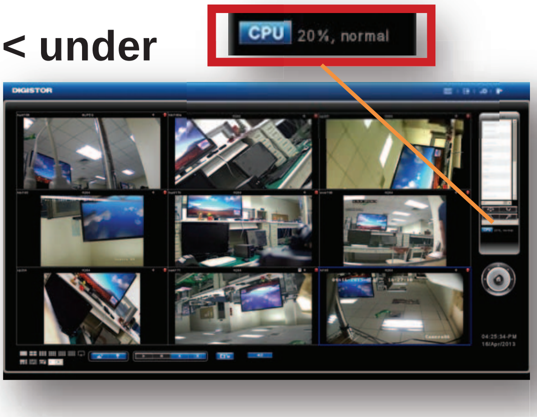
CPU Loading Indicator

CPU indicator in live view assists users in knowing the CPU loading.

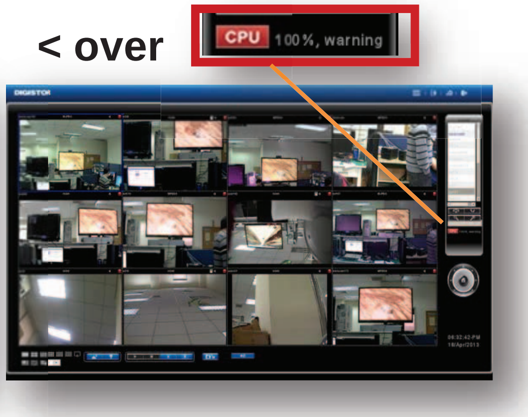
CPU indicator shows blue when the CPU loading is under 70%, and shows red, as a warning, when it's over 70%.

Changing the video configuration, like resolution, FPS and video quality or changing RAID type can influence the CPU loading.

< under

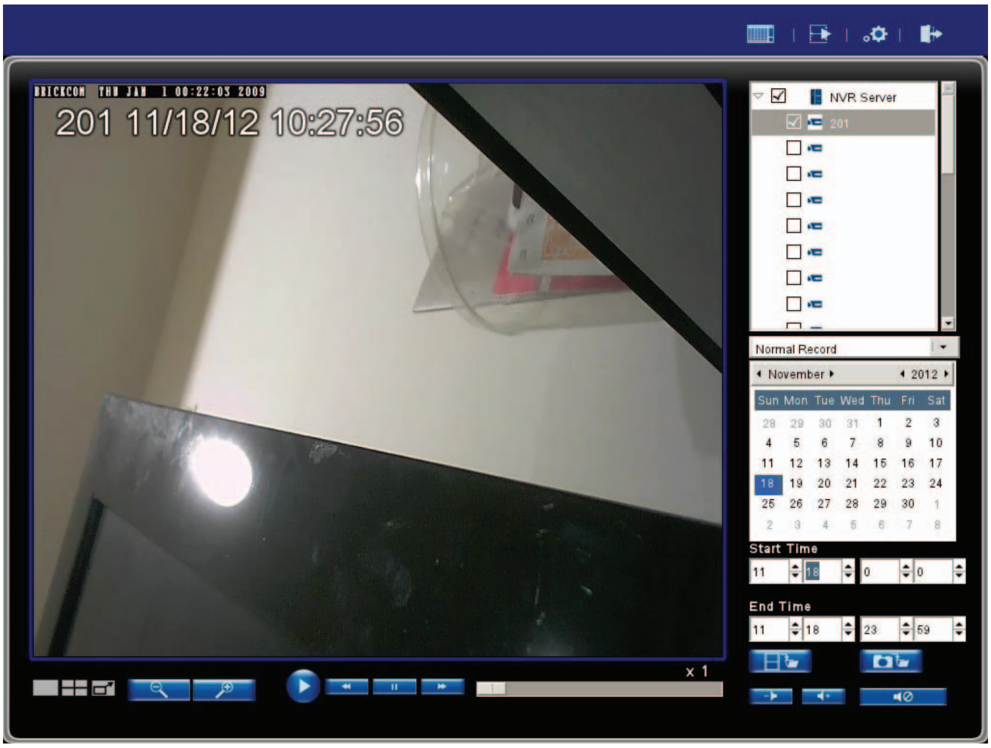

CPU 20%, normal
DIGISTOR

< over


CPU 100%, warning
DIGISTOR

3.4 Playback

Playback is a function allowing users to view recorded videos from cameras connected to the NVRPRO. NVRPRO offers synchronised playback of up to four cameras and easy steps are provided to help users quickly sort through the recorded video.


BRICKCOM THU JAN 1 00:22:03 2009
201 11/18/12 10:27:56
NVR Server
201
Normal Record
November
2012
Sun Mon Tue Wed Thu Fri Sat
x 1

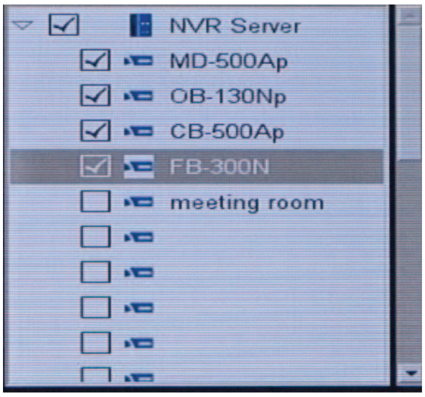
Start Time: 11 | 18 | 0 | 0

End Time: 11 | 18 | 23 | 59

Steps to Search Playback Videos

Select cameras

Up to four cameras can be selected to playback the recorded video.

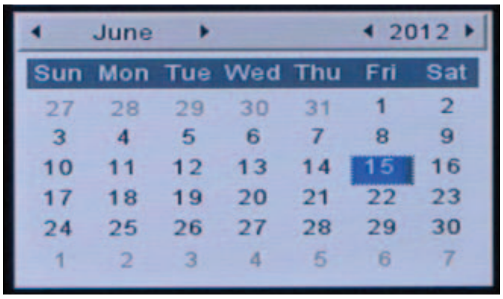


☑ NVR Server
☑ MD-500Ap
☑ OB-130Np
☑ CB-500Ap
☑ FB-300N
☐ meeting room
☐
☐
☐
☐

Select time period:

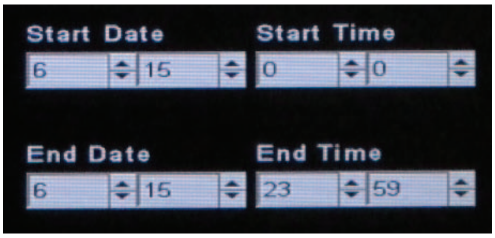
Users can designate the specific time for the video playback.

If the selected cameras have recorded videos in the indicated period of time, dates are shown with a blue background.



◀ June ▶ ◀ 2012 ▶

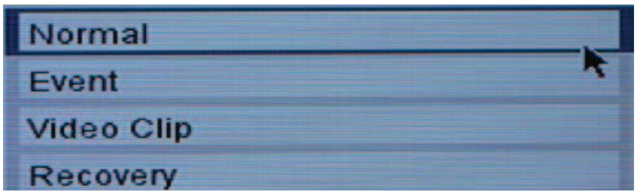
Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7



Start Date: 6 15
Start Time: 0 0
End Date: 6 15
End Time: 23 59

Select the type of recorded videos:

There are four types of recorded videos: Normal, Event, Video Clip and Recovery.



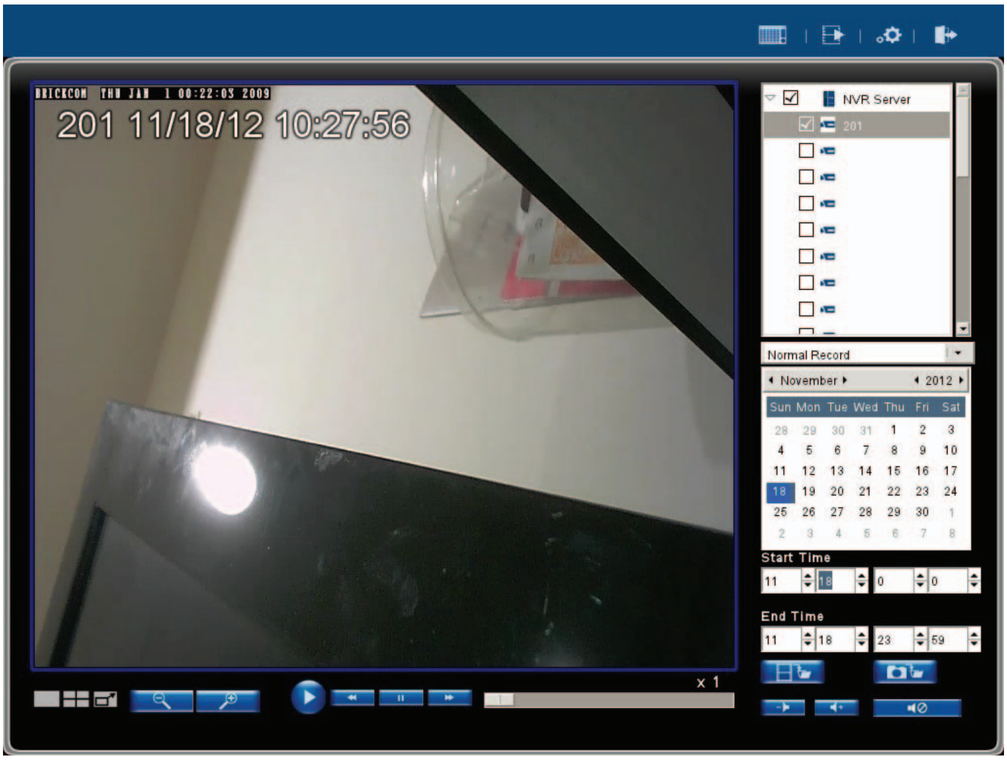
After selecting the video type and time period, click the play button ▶ to start playback.

View Playback Videos

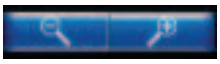
The screen shows the recording time of each channel in the top of each grid.

Click ⛶ to view the video in full screen.

One-screen ☐ and four-screens ⊞ are also provided to display playback.


BRICKCOM THU JAN 1 00:22:03 2009
201 11/18/12 10:27:56
NVR Server
201
Normal Record
November
2012
Sun Mon Tue Wed Thu Fri Sat
Start Time
11 18 0 0
End Time
11 18 23 59
x 1

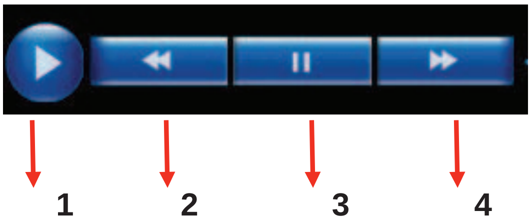
Digital zoom in and digital zoom out



The image can be enlarged by clicking digital zoom-in button.

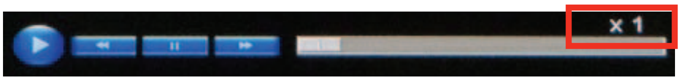
The image can be returned its previous size by clicking the digital zoom out button.

Video play speed control



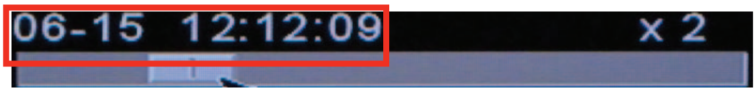
1. **Play**: Click the button to play video file.
2. **Speed down**: When you click “**speed down**,” the recorded video will play at slower speeds.
3. **Pause**: To temporarily stop the playback.
4. **Speed up**: When you click “**speed up**,” the recorded video plays faster.

The play speed is displayed above the seek bar.



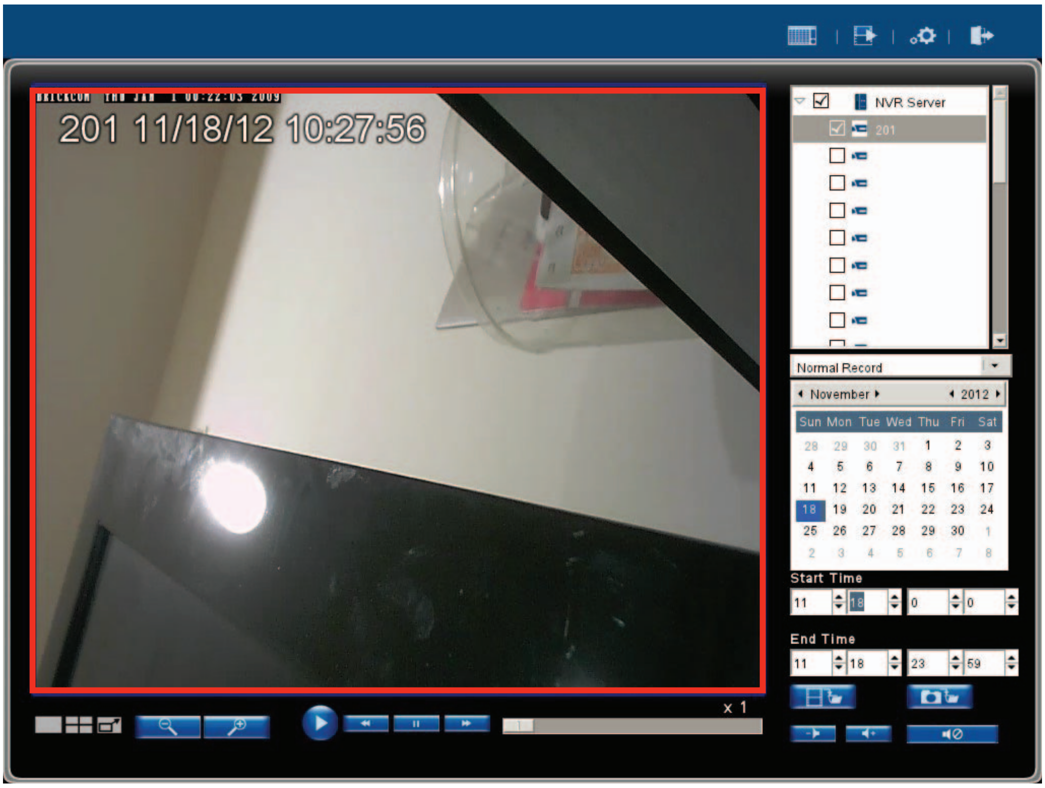
Seek Bar

By moving the seek bar, users can go directly to a specific recording time. Date and time are shown above the seek bar to provide a time reference.


06-15 12:12:09
x 2

Playback Audio

The audio is played according to the channel selected on the screen.

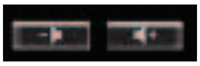

201 11/18/12 10:27:56
☑ NVR Server
☑ 201
Normal Record
November
2012
x 1

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8

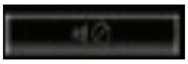
Start Time 11 18 0 0

End Time 11 18 23 59

Volume adjustment

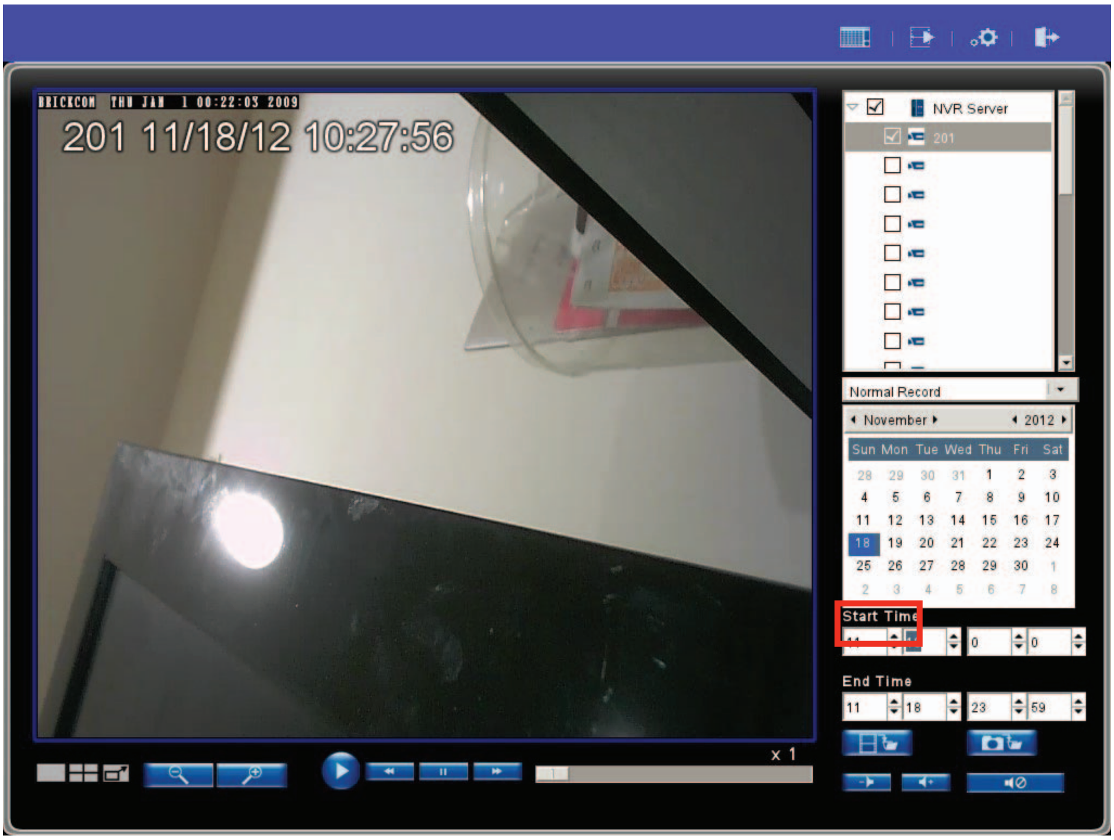

After channel selection, adjust the volume using volume button.

Audio mute


The mute function disables audio for all playback channels.

Export Files

The Export function allows users to export files directly to a USB drive.


BRICKCOM THU JAN 1 00:22:03 2009
201 11/18/12 10:27:56
NVR Server
201
November
2012
Sun Mon Tue Wed Thu Fri Sat
x 1

Normal Record

Start Time

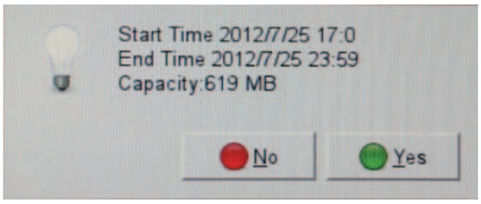
End Time 11 18 23 59

Select cameras, video file types, date and the time period first, and then click the export button to copy the files.

Users are asked if the NVR Player and NVR Check should be downloaded with video files.

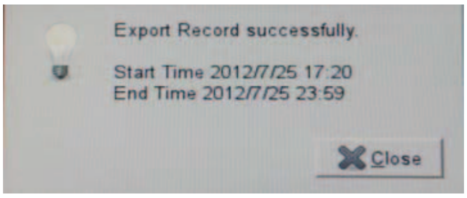
⚠NVR Player is the player for watching recorded NVRPRO files.

⚠NVR Check is the verification tool to verify if the recorded files originated from NVRPRO.



Start Time 2012/7/25 17:0
End Time 2012/7/25 23:59
Capacity:619 MB

Users can check the start time, end time and capacity before exporting the files.



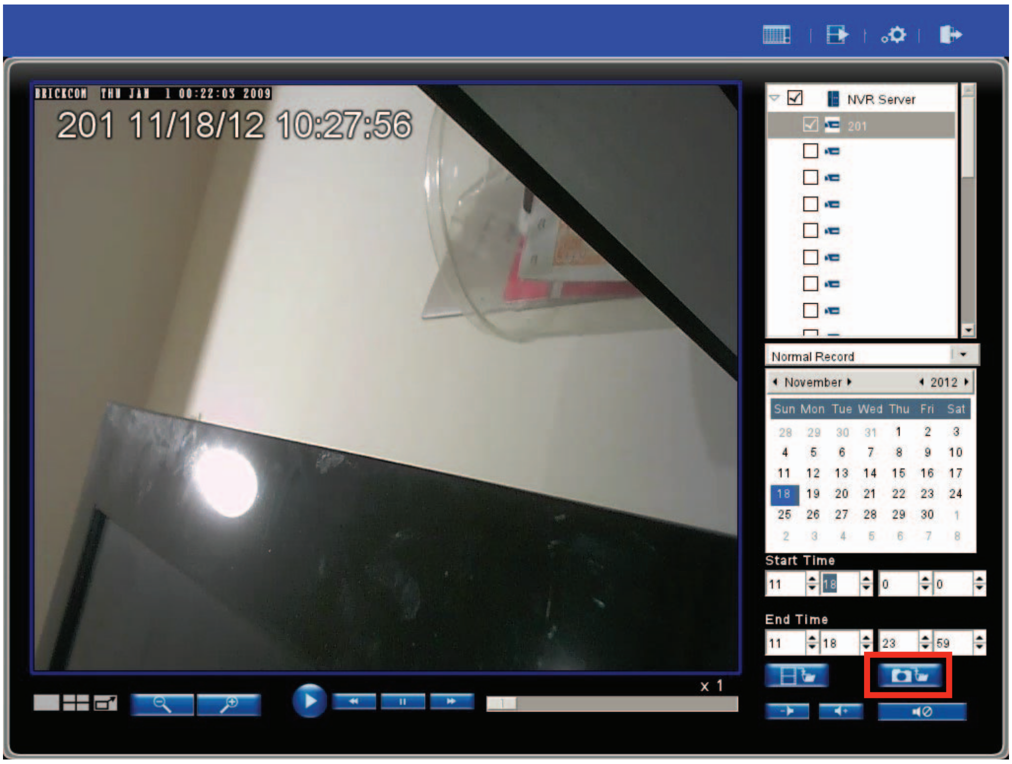
Export Record successfully.

Start Time 2012/7/25 17:20
End Time 2012/7/25 23:59

If the export is successful, the message shown above is displayed.

Snapshot of Playback

Users can take a snapshot while having the playback in local display. It needs a USB drive plugged in for the export of snapshot images and will take 10 sequential images, which are saved on the USB dongle.



Start Time 11 18 0 0
End Time 11 18 23 59

BRICKCOM THU JAN 1 00:22:03 2009
201 11/18/12 10:27:56
NVR Server
201
Normal Record
November
2012
Sun Mon Tue Wed Thu Fri Sat
x 1

3.5 Others

Screenshot in Local Display

The image of the full screen in local display can be saved in the NVR HDDs. The image is saved in the folder “Public “ and users can access the folder from remote web browser.
PrtScn
SysRq

User can access the file by the Windows Networking and FTP Service.

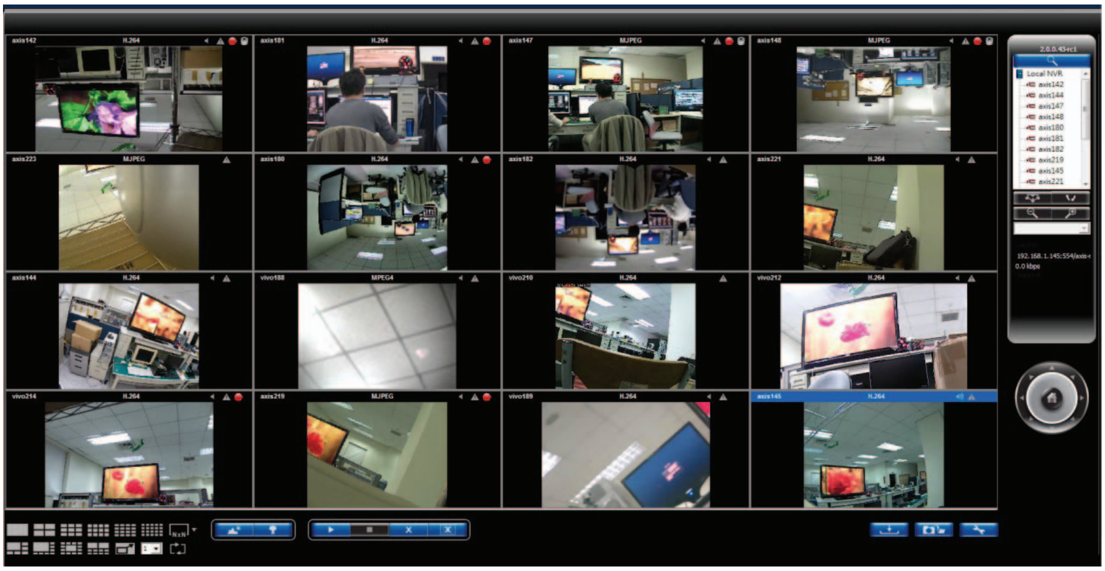
⚠ **Note**: To use Windows Networking and FTP Service, enable both in “**File Sharing Service**” in the configuration page. Refer to chapter 5.3.3

4. Using the NVRPRO with Remote Web Browser

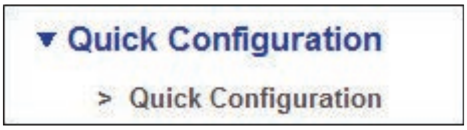
Users can use Microsoft Internet Explorer to monitor the network camera and view playback.

4.1 Live View

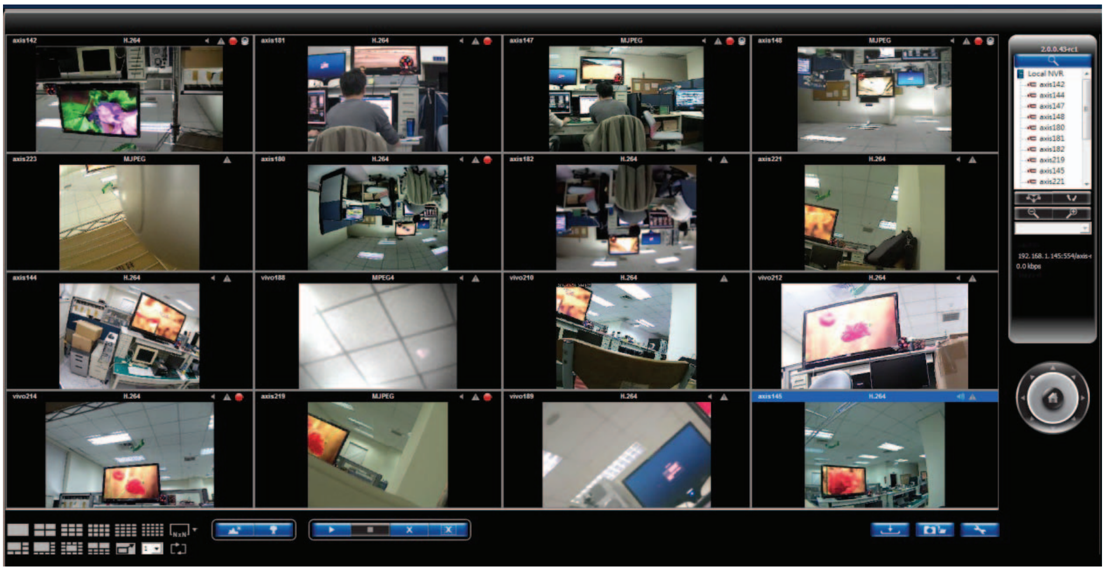
After the Quick Configuration is complete, NVRPRO guides you to live view. Users can view the live video stream from an IP camera via the network and monitor the view remotely.



Live view displays the video according to the camera list which has been created in the Quick Configuration camera settings menu.



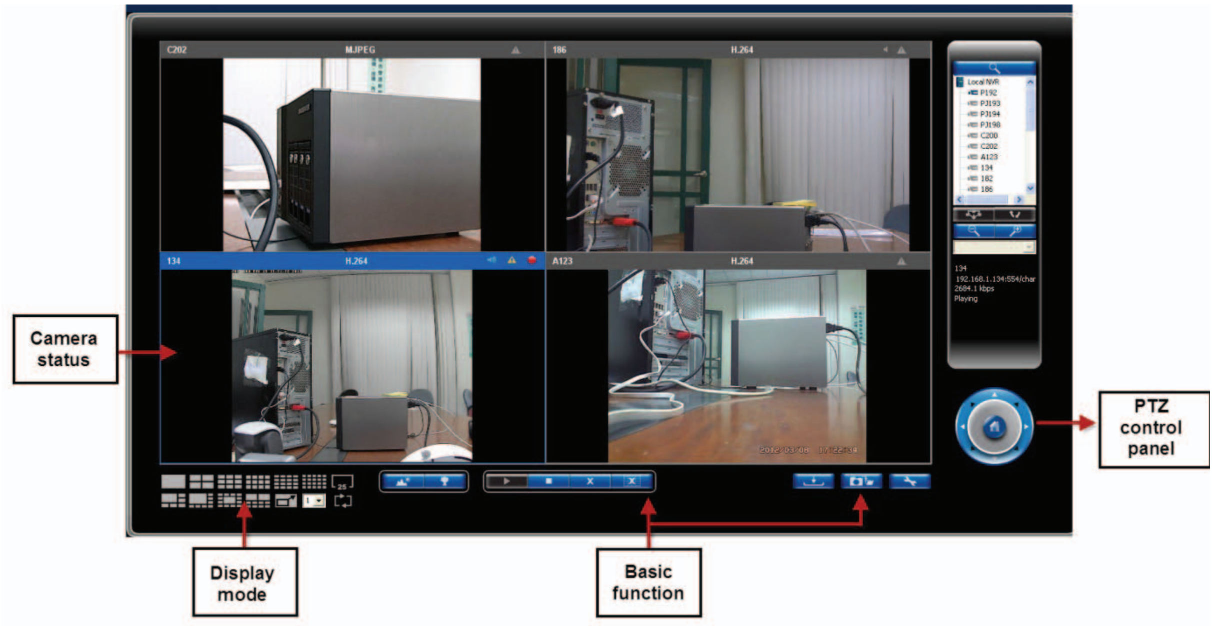
Select View Modes on Live View Page



On the top right of live view, users can select four view mode options.

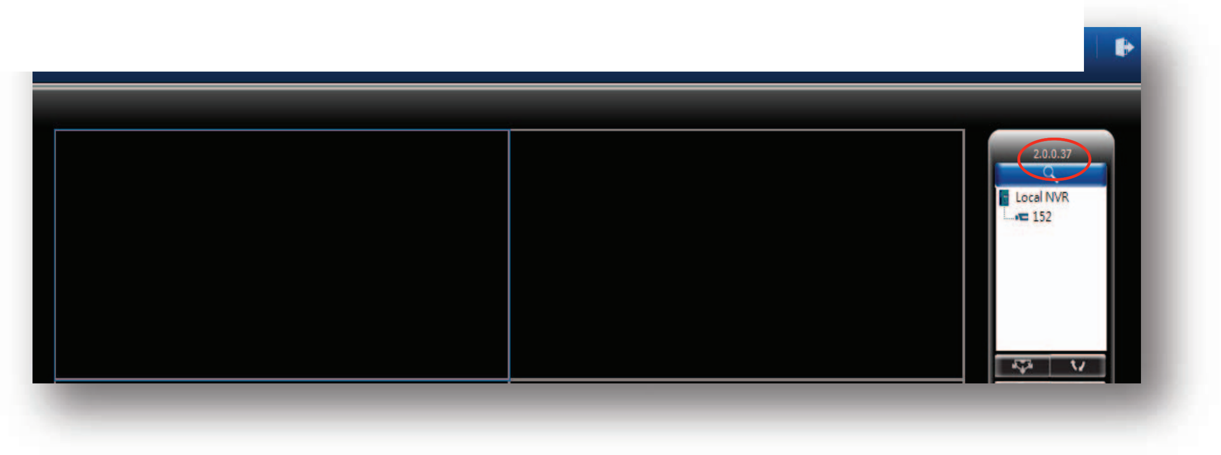
Mode	Description
▦	**Live View**: Click “**Live View**” to view live video.
▶	**Playback**: Click “**Playback**” to play, and export, the recorded video files.
⚙	**Configuration**: Click “**Configuration**” to configure camera, recording, event, management, network, quick configuration and system.
⇥	**Logout**: To leave the NVRPRO click “**Logout**”.

Main Functions for Live View


C202
MJPEG
186
H.264
134
H.264
A123
H.264
Local NVR
Camera status
PTZ control panel
Display mode
Basic function

Firmware Version:

Users can see the firmware version without going to the configuration page.


2.0.0.37
Local NVR
152

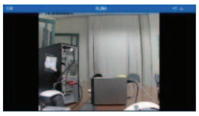
The function of each button is briefly described below:

Camera status:

Icon	Description
134	**Camera name**: The name of the camera is located in the top left corner in each video window. Users can rename the camera via the path “**Configuration->IP Camera->Camera Settings**.”
H.264	**Video compression format**: M-JPEG/MPEG-4/H.264
🔊	**Audio**: If camera supports audio, NVRPRO displays audio in blue. Vice versa, NVRPRO shows audio in grey.

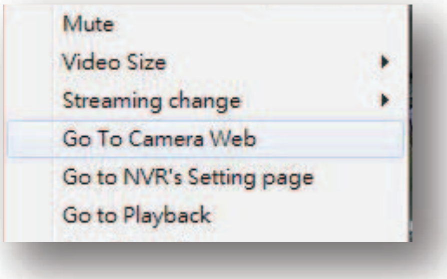
⚠ **Event**: When event happens, NVRPRO shows warning to user for instant alert.

● **Recording status**:
The window shows if the camera is recording or not.



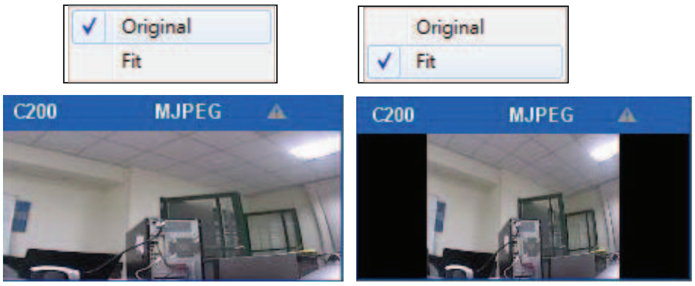
Desired grid:
The **outline border** surrounds the desired window grid to highlight the image focus.

Right click video window:


Mute
Video Size
Streaming change
Go To Camera Web
Go to NVR's Setting page
Go to Playback

Mute: To mute the audio of the video

Video Size: Original or Fit


✓ Original
Fit
C200
MJPEG
Original
✓ Fit
C200
MJPEG

Streaming change: To exchange the streaming resource.

Go To Web: Go to camera configuration page.

Go to NVR's Setting Page: Go to NVR's configuration page.

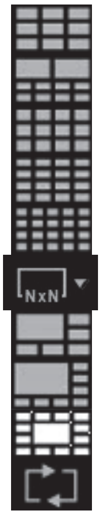
Go to Playback: Go to NVR's playback page.

Go to Camera Web, Go to NVR's Setting page and Go to Playback can be also be used while multiple NVR's are connected.

Display mode

The NVRPRO supports multi-display monitoring modes. Click the display mode icon to monitor live view. When you click a display mode the icon turns blue.

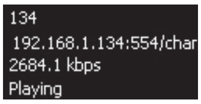
Icon	Description
	Full Screen
	1 Screen
	4 Screens



9 Screens
10 Screens
12 Screens
16 Screens
20 Screens
25 /30/ 36 Screens
5+1 Screens
7+1 Screens
12+1 Screens
Sequential mode

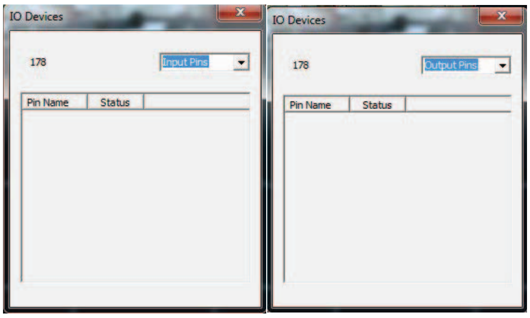
Click 1 ▾ to choose the page of liveview 1 ▾ 1 2 3 4. In option, User can set the sequential interval, in user-defined seconds, for display mode.

Basic function:

Icon	Description
	Cameras list: The camera status is enabled/ dropped in live view.
▶	**Play**: Start monitoring.
■	**Stop**: Stop monitoring.
X	**Drop**: Drop the camera from monitoring.
X	**Drop all**: Drop all cameras from monitoring.
	Zoom out / **Zoom in**: Select a channel to enable digital zoom function.
 134 192.168.1.134:554/char 2684.1 kbps Playing	**Camera information**: Consists of Camera Name, IP address, bit rate, and status.

- **Remote IO**:

Click to check camera DI/DO control for its input and output pins.


IO Devices
178
Input Pins
Pin Name
Status
IO Devices
178
Output Pins
Pin Name
Status

- **Snapshot**:

Click on the "**Snapshot**" to save snapshots. Then, a window pops up to display the image. There are three functions for snapshot:

1. **Clipboard**:

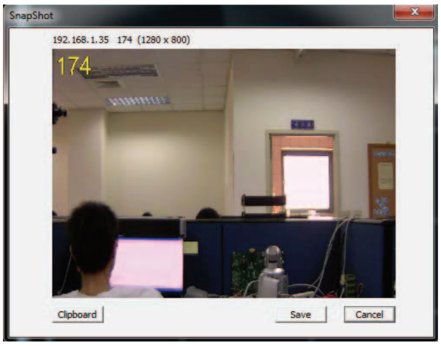
Copy the image to device's temporary memory. Users can paste images to graphics painting programs, such as Paint, for advanced editing.

2. **Save**:

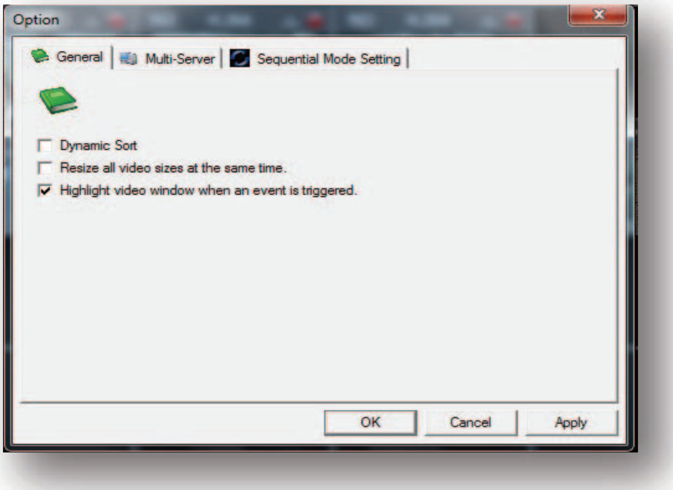
Save image to default path.

3. **Cancel**:

Cancel snapshot.


SnapShot
192.168.1.35 174 (1280 x 800)
174
Clipboard
Save
Cancel

- **Option**:

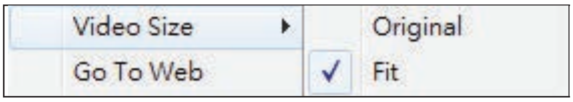

Option
General
Multi-Server
Sequential Mode Setting
OK
Cancel
Apply

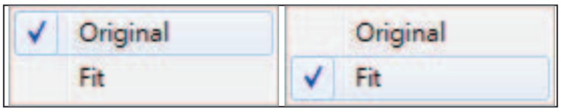
☐ Dynamic Sort
☐ Resize all video sizes at the same time.
☑ Highlight video window when an event is triggered.

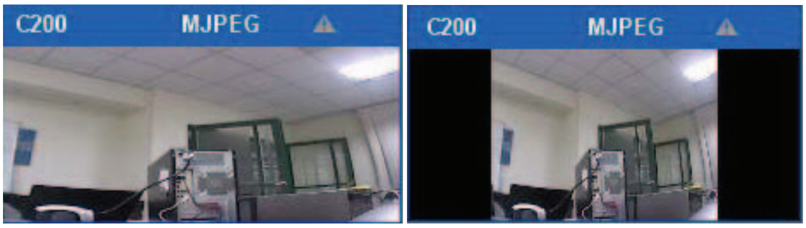
1. General:

Dynamic sort:
Users can enable a dynamic sort to rearrange video feeds, in order, without having any blank grids after a video feed is dropped from live view.

Resize all video images at all time
Users can right click on the video and set the video size to original size or to fit the grid at all times.


Video Size
Go To Web
Original
✓ Fit

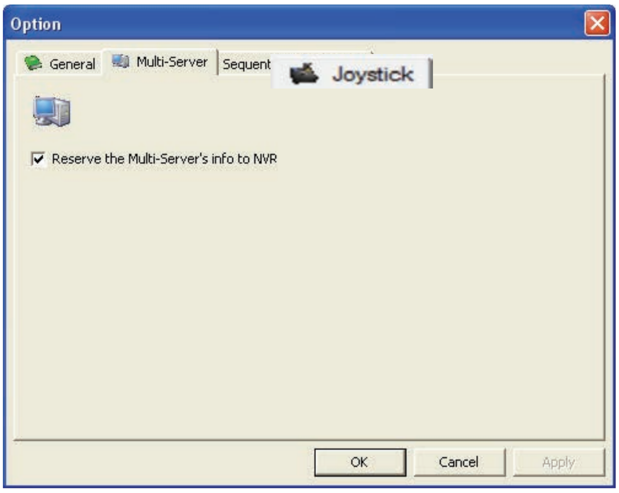

✓ Original
Fit
Original
✓ Fit


C200
MJPEG
C200
MJPEG

Highlight video window when event is triggered
The check box for "Highlight video window when event is triggered" enables a warning frame which pops out for the channel where an event is detected.

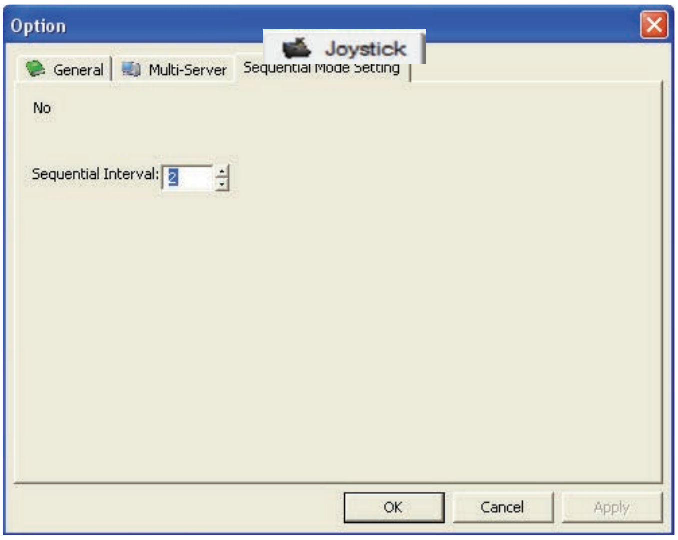
2. Multi-Server:

Users can save the camera list for multi-server in the live view page.


Option
General
Multi-Server
Sequent
Joystick
OK
Cancel
Apply

☑ Reserve the Multi-Server's info to NVR

3. Sequential Mode Setting:


Option
Joystick
General
Multi-Server
Sequential Mode Setting
No
OK
Cancel
Apply

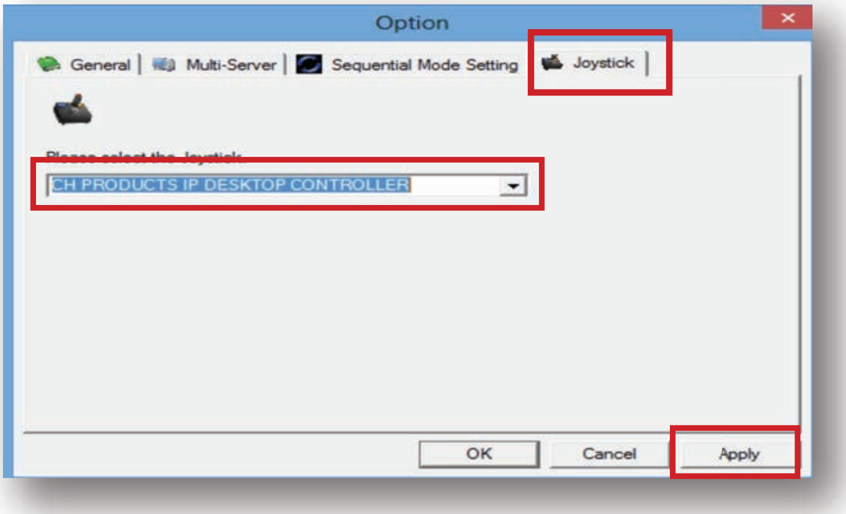
Sequential Interval: 2

Click the sequential interval tabs to set the number of user-defined seconds to be used for sequential mode.

4. Joystick

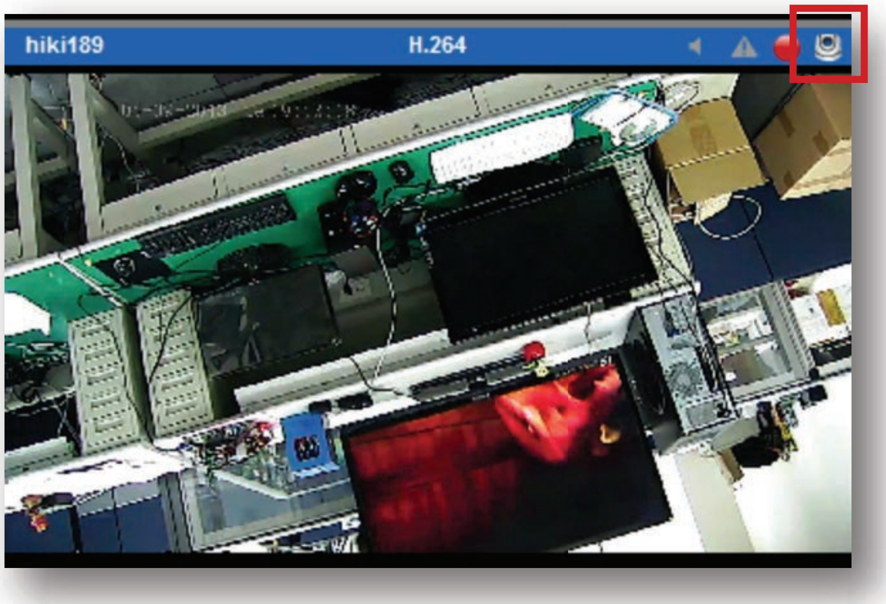
Users are able to control PTZ cameras with a USB joystick.

Choose the joystick tab, select the joystick model and then click ‘‘Apply’’


Option
General
Multi-Server
Sequential Mode Setting
Joystick
OK
Cancel
Apply

Please select the Joystick:
CH PRODUCTS IP DESKTOP CONTROLLER

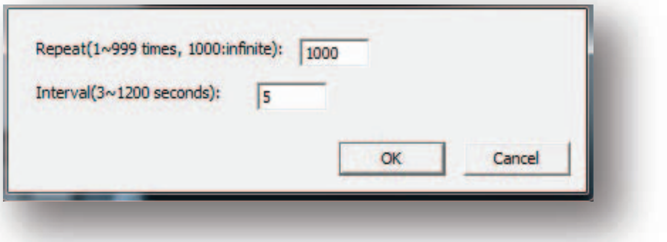
Joystick work with PTZ cameras if the status bar shows the PTZ icon.



PTZ Control Panel

If the IP camera supports PTZ functions, use the control panel to adjust the viewing angle. The following functions are available - depending on the camera models.

Icon	Description
◉	**PTZ panel**: PTZ allows users to monitor large areas with a single network camera. Pan, tilt, and zoom functions can be controlled remotely by users. If a device supports PTZ control, users can click on the arrows to pan and/or tilt the camera. The house logo in the centre takes you back to original monitoring position.
▾	**Preset positions**: Select the preset positions which are defined in the PTZ camera, and the camera moves to the position selected.
🔍 🔍	**Optical zoom out/ Optical zoom in**: If a camera supports PTZ control, adjust the PTZ camera to zoom out or zoom in.
	Schedule for PTZ: Select "**Set**" to set camera preset position (reserved). It opens the dialogue box to set how many times the PTZ schedule is repeated and how many seconds to stay between each preset point


Repeat(1~999 times, 1000:infinite): 1000

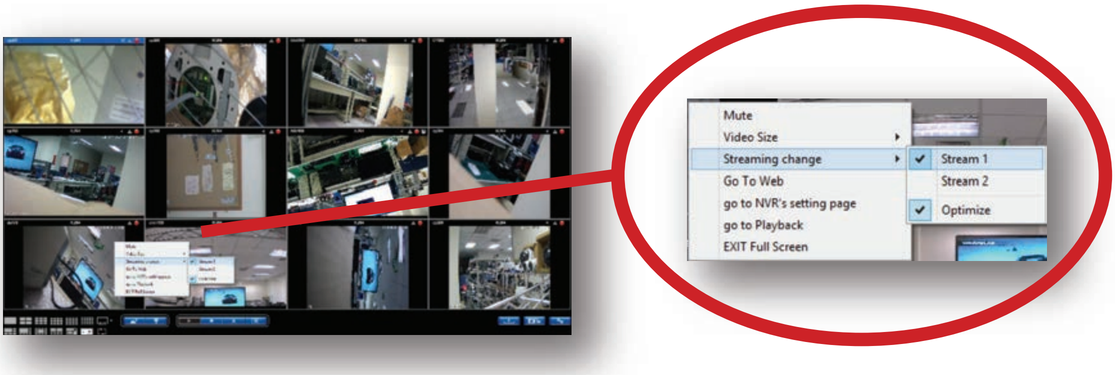
Interval(3~1200 seconds): 5

Schedule for PTZ:
Click “**Go**” to start PTZ patrol schedule.

Exchange Streaming

NVRPRO allows users to setup the dual streaming configurations in the cameras parameters page - if cameras support dual stream. It is suggested stream 1 is set as the higher resolution and stream 2 the lower.

To switch to a different stream, select the channel in the live view page and right click the mouse to have the list displayed.

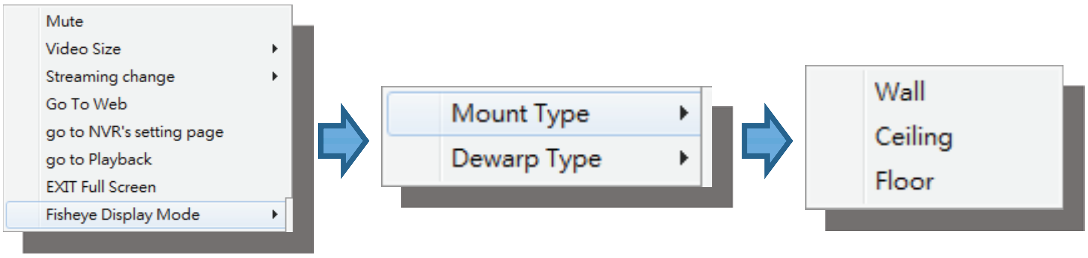

Mute
Video Size
Streaming change
Go To Web
go to NVR's setting page
go to Playback
EXIT Full Screen
Stream 1
Stream 2
Optimize

When “Optimize” is enabled, the streaming type is automatically adjusted for different display modes.
When “Optimize” is disabled, streaming type can be adjusted and memorised for different display modes

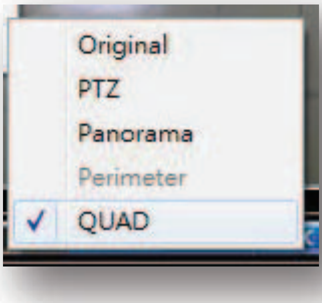
Dewarp for fisheye cameras

By right clicking on the video, users can select the correct dewarp engine for the fisheye camera.

a. Choose mounting type


Mute
Video Size
Streaming change
Go To Web
go to NVR's setting page
go to Playback
EXIT Full Screen
Fisheye Display Mode
Mount Type
Dewarp Type
Wall
Ceiling
Floor

b. Choose dewarp Type

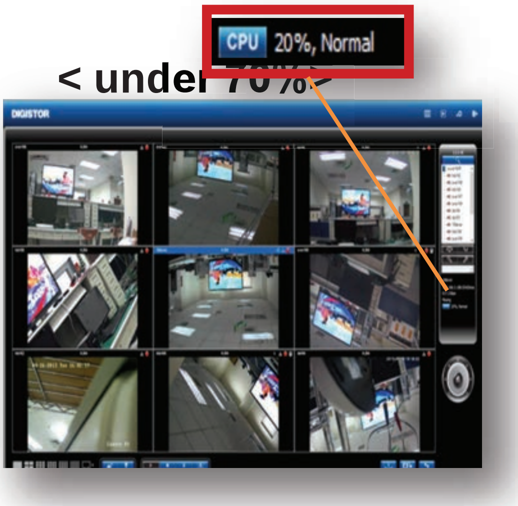

Original
PTZ
Panorama
Perimeter
✓ QUAD

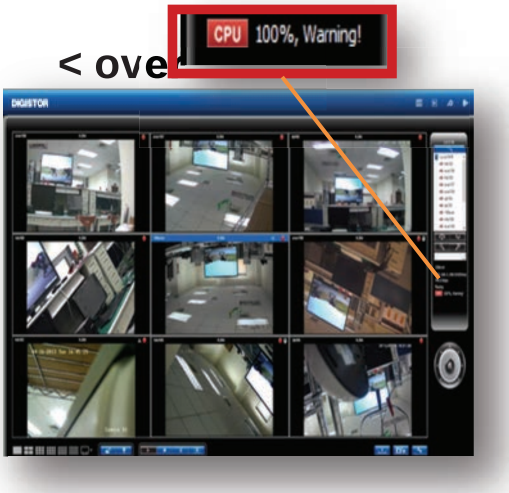
CPU Loading Indicator

The CPU indicator in live view lets users to know the CPU loading.

CPU indicator shows blue when the CPU loading is 70% or under, and shows red as warning when it reaches above 70%.

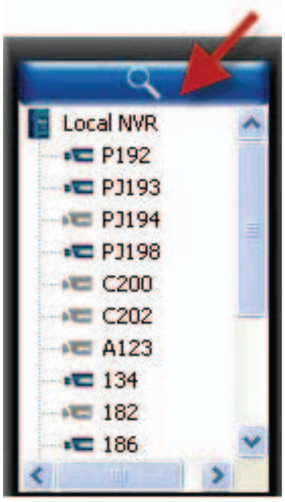
Changing the video configuration - like resolution, FPS and video quality or changing RAID type influences the CPU loading, so users can find the best balance.


CPU 20%, Normal
< under 70%>

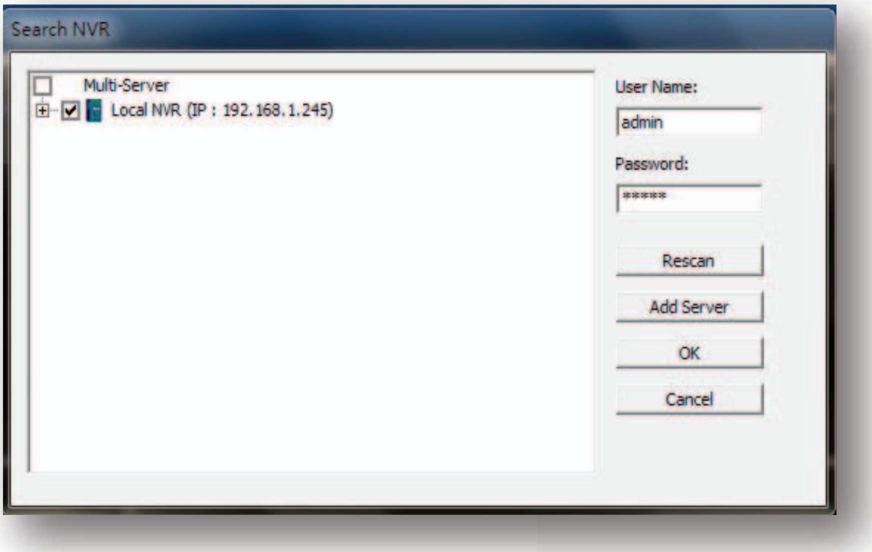

CPU 100%, Warning!
< ove

Multi-NVR Server

Users can add multi-NVR server by clicking “**Searching NVR**.”


Local NVR
P192
PJ193
PJ194
PJ198
C200
C202
A123
134
182
186

Insert the account and password of the NVRPRO which you are adding to the local server, and then the located NVR in the LAN appears; including the local NVR. Click up to 144 channels to add them to the camera list. Click “**Ok**” to add cameras or rescan to search for the NVR again.



Search NVR

☐ Multi-Server
☑ Local NVR (IP : 192.168.1.245)

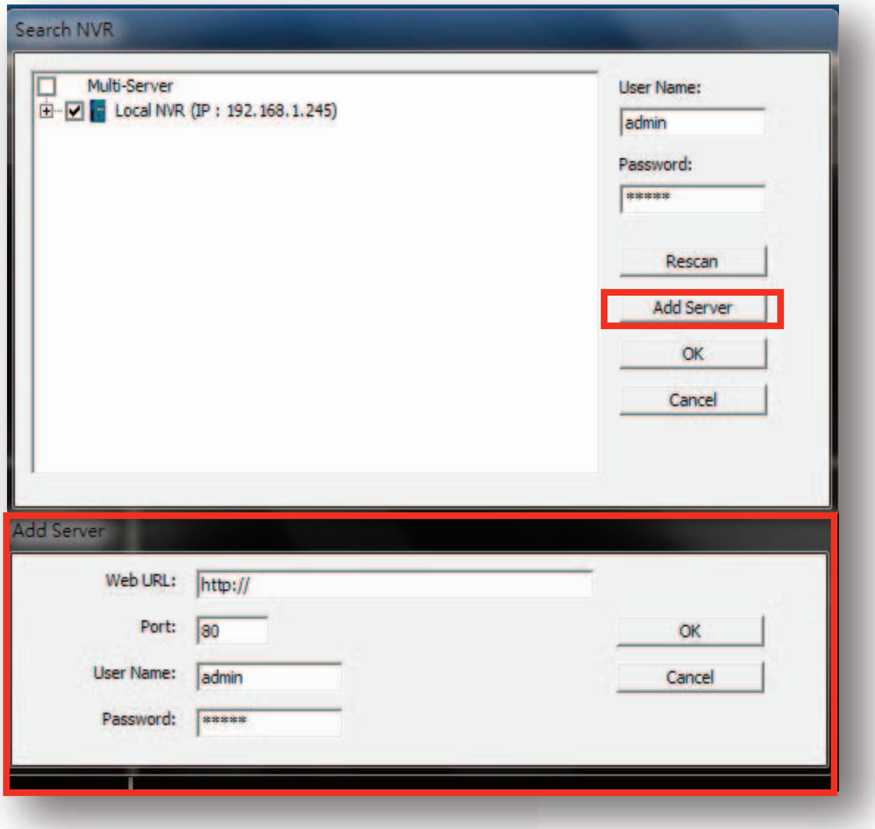
User Name: admin

Password: *****

Rescan
Add Server
OK
Cancel

Add Server

With correct IP, port, username and password, then click OK to apply, NVRPRO’s can be manually added in WAN or LAN.


Search NVR
Rescan
Add Server
OK
Cancel
Add Server
OK
Cancel

☐ Multi-Server
☑ Local NVR (IP : 192.168.1.245)

User Name: admin
Password: ******

Web URL: http://
Port: 80
User Name: admin
Password: ******

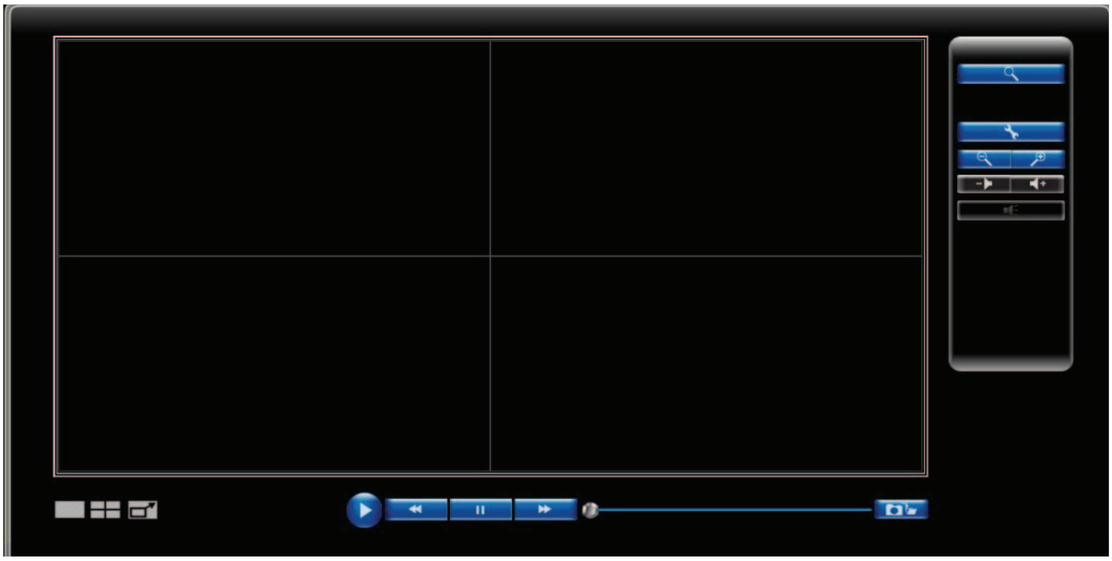
4.2 Playback

Playback is a function that allows users to view recorded videos from cameras connected to the NVRPRO. The NVRPRO offers synchronised playback of up to four cameras and easy steps are provided to help users quickly sort through the recorded videos.

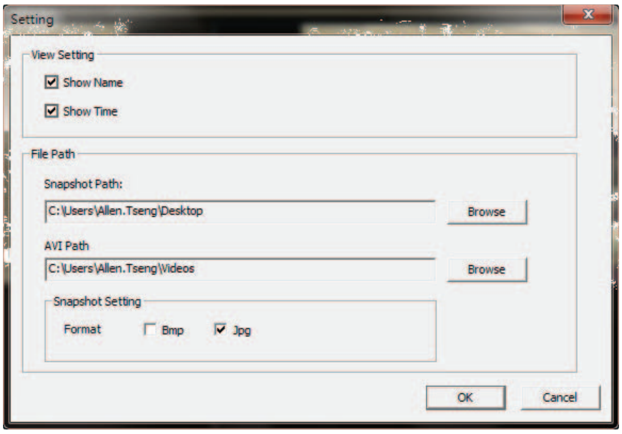
Playback video can be viewed in full screen and snapshots can be taken and saved during a video playback.

Steps to Search Playback Videos

Before viewing the recorded videos, two buttons “**Search**” and “**Preference**” are available to search the recorded videos.



- **Search**: Click the button to open recorded videos and refer to the instructions below:
- **Preference**: Select and set the snapshot path and format (BMP or JPG). Also the storage path for downloading the recorded files.



Setting

View Setting

☑ Show Name

☑ Show Time

File Path

Snapshot Path: C:\Users\Allen.Tseng\Desktop

AVI Path C:\Users\Allen.Tseng\Videos

Snapshot Setting

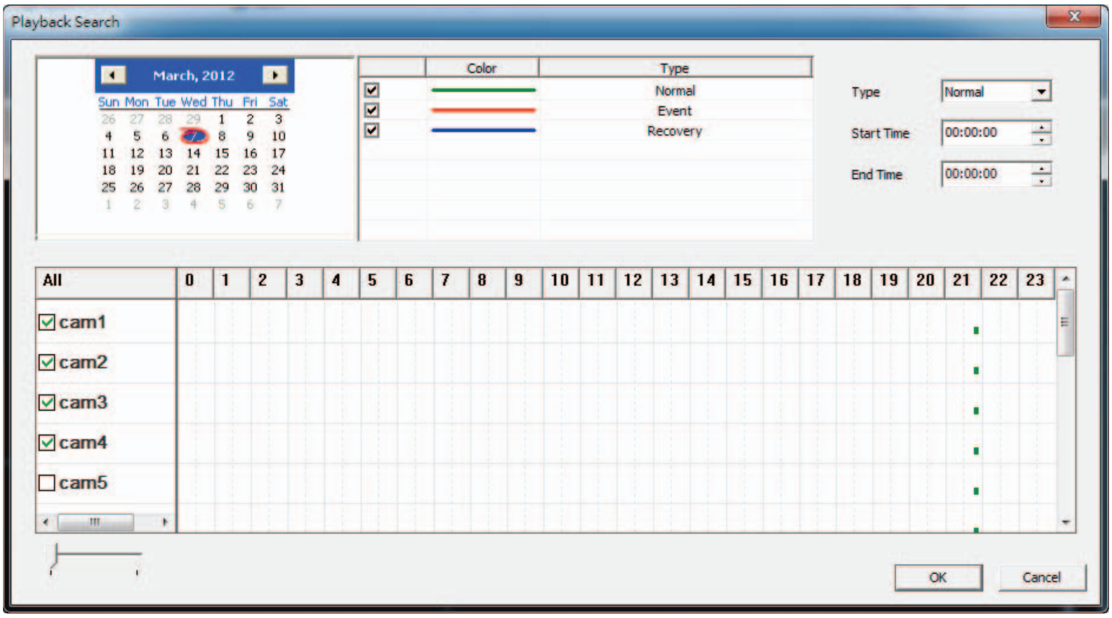
Format ☐ Bmp ☑ Jpg

Follow the four steps detailed below to quickly search the recorded video:

1. Select date from the calendar.
2. Select normal, event or recovery file
3. Select the channel number.
4. Select the video from the timetable.

1. Select Date from the Calendar

Select the date to search for recorded video.


Playback Search
All
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
OK
Cancel

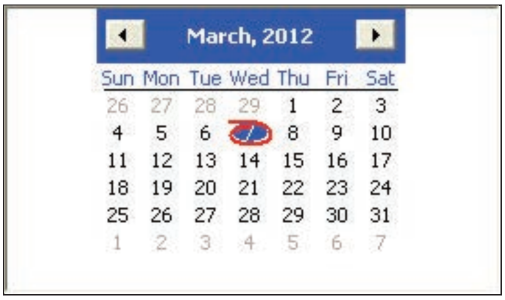
Type: Normal

Start Time: 00:00:00

End Time: 00:00:00

- ☑ cam1
- ☑ cam2
- ☑ cam3
- ☑ cam4
- ☐ cam5

Select a date that provides recorded video; the date is highlighted in blue

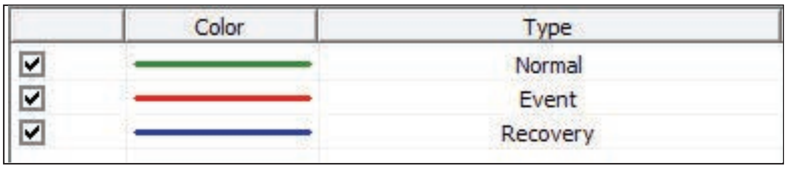


March, 2012

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

2. Select Normal, Event or Recovery file

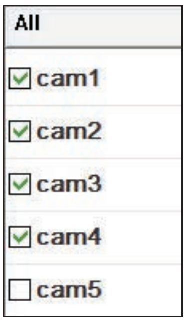
Users can select the video file type. Different colours are used in the timetable in order to distinguish between the types of video file.



	Color	Type
☑	🟩	Normal
☑	🟥	Event
☑	🟦	Recovery

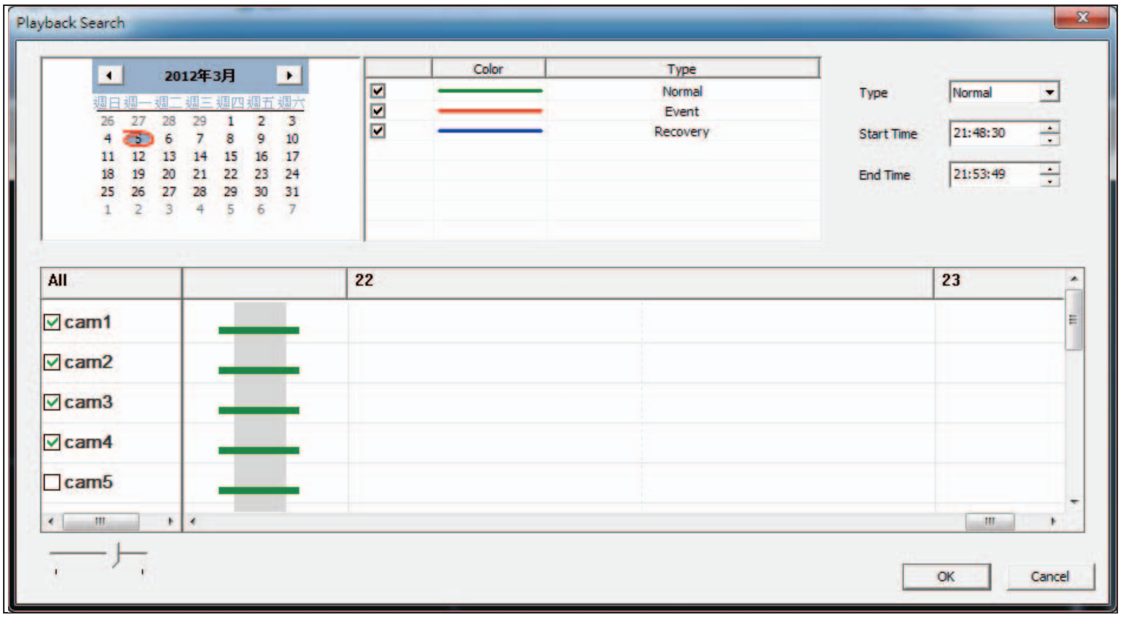
3. Select the Channel Number

Select the channel number to search the recorded videos. Up to 4 channels can be selected at the same time.


All
☑ cam1
☑ cam2
☑ cam3
☑ cam4
☐ cam5

4. Select Video from the Timetable

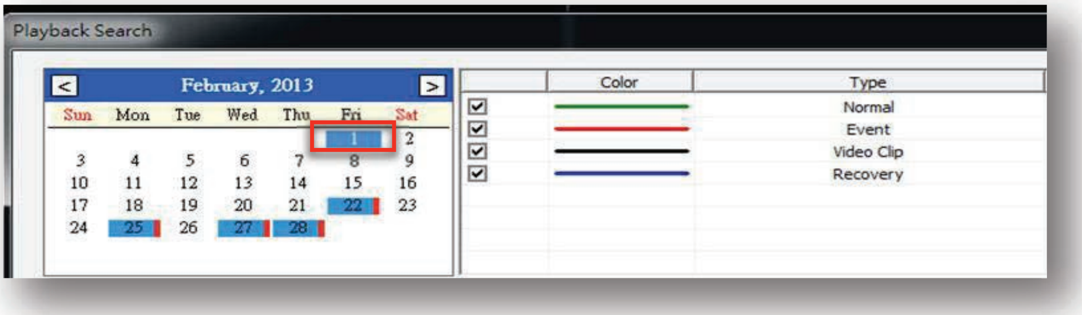
After selecting date, video file types and cameras, users can select the time period of video files and the results are highlighted in grey boxes in the timetable.


Playback Search
2012年3月
Color
Type
Normal
Event
Recovery
All
22
23
OK
Cancel

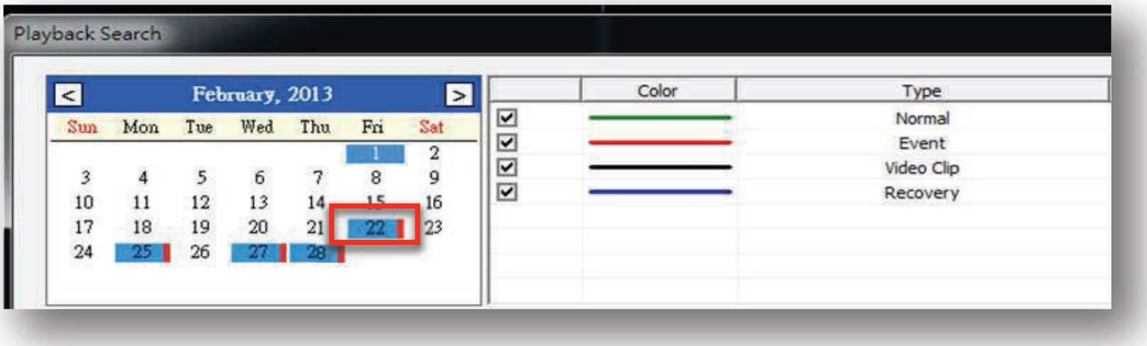
Type: Normal
Start Time: 21:48:30
End Time: 21:53:49

☑ cam1
☑ cam2
☑ cam3
☑ cam4
☐ cam5

Different recording types can be presented in different colours in the playback calendar in the remote browser. If there is only normal recording in the specific date, the date will be highlighted in blue.


Playback Search
February, 2013
Sun
Mon
Tue
Wed
Thu
Fri
Sat
Color
Type
Normal
Event
Video Clip
Recovery

If there’s event recording in the specific date, the date is highlighted in blue with red stripes on each side.



Playback Search

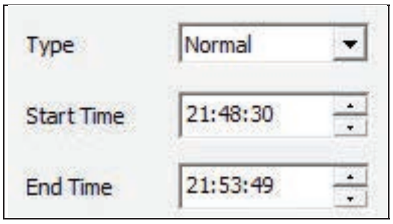
February, 2013

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

	Color	Type
☑	🟩	Normal
☑	🟥	Event
☑	⬛	Video Clip
☑	🟦	Recovery

Users can also move the bar to enlarge or narrow down the time period to check for video files from the timetable.

After selecting the video files and time period, a selection box shows the information you selected.

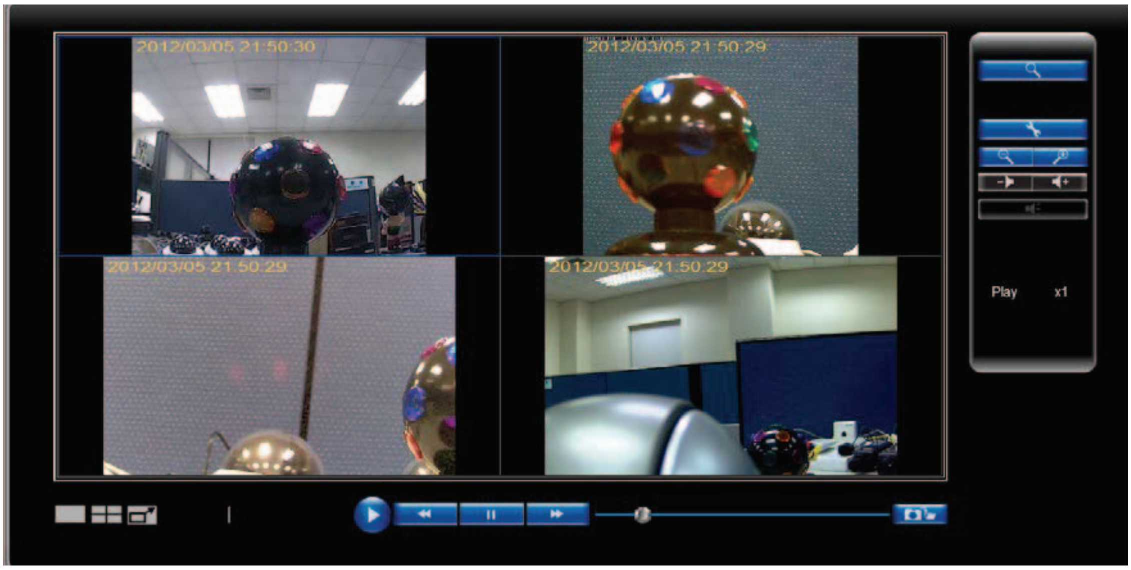


Type: Normal

Start Time: 21:48:30

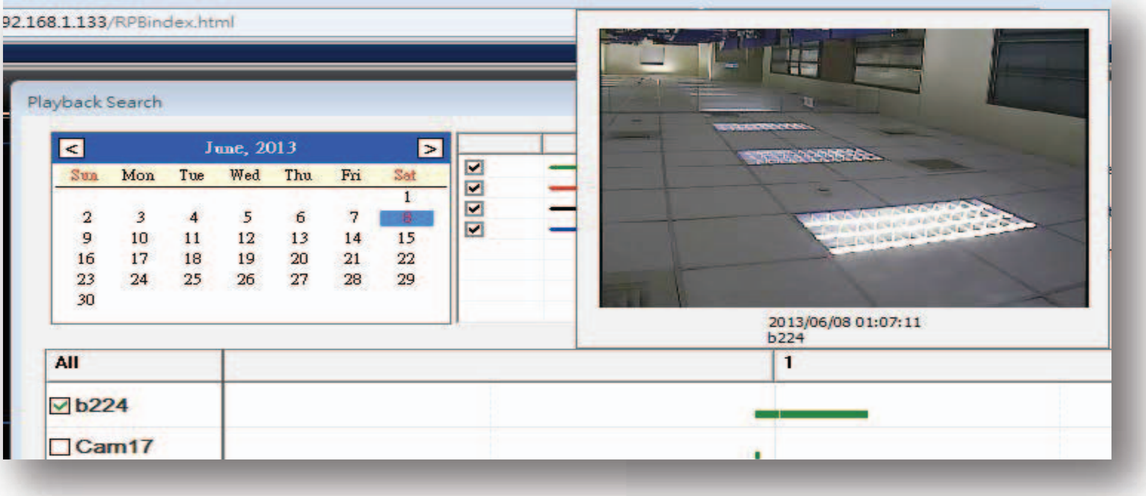
End Time: 21:53:49

Finally, click “**Ok**” to start playback.


2012/03/05 21:50:30
2012/03/05 21:50:29
2012/03/05 21:50:29
2012/03/05 21:50:29
Play
x1

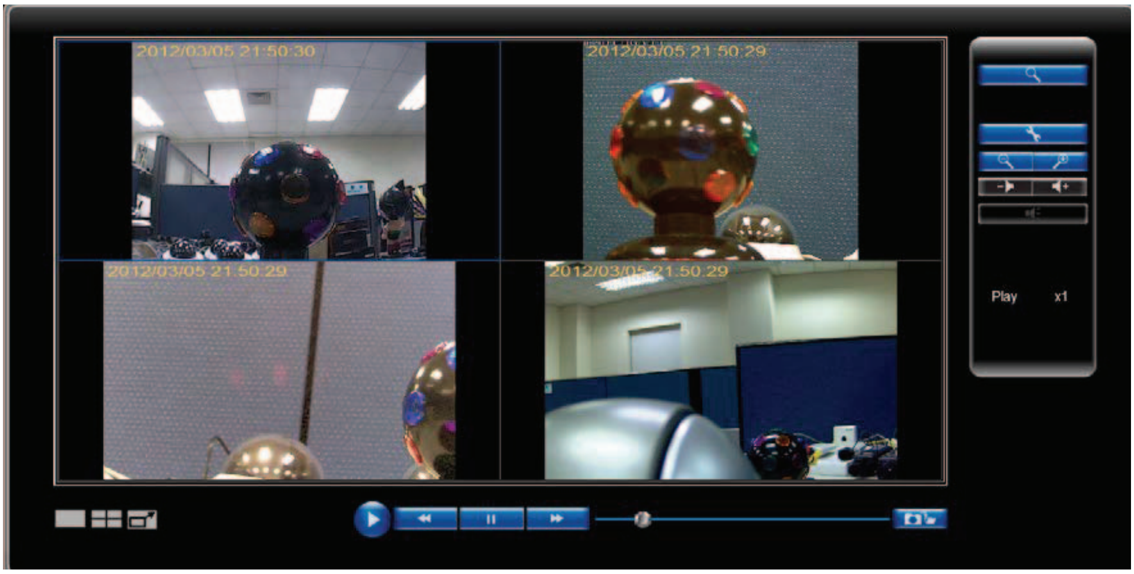
Thumbnail in Playback

With thumbnail function in the playback, users can move the pointer of the mouse to the footage and the snapshot of the specific time is shown.
It helps users to easily locate the period of time to play the recording file.
From the thumbnail, users can also read the related information such as date, time and camera name.
The thumbnail will be shown while the pointer moves on the footage

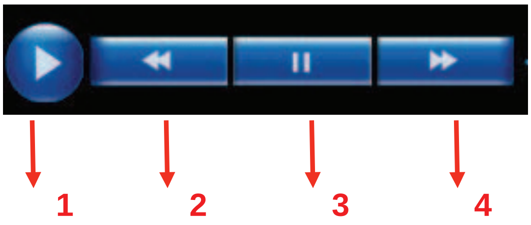

92.168.1.133/RPBindex.html
Playback Search
<
June, 2013
>
Sun Mon Tue Wed Thu Fri Sat
1
2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30
2013/06/08 01:07:11
b224
All
1
☑ b224
☐ Cam17

View Playback Videos

The screen shows the recording time of each channel in the top of each grid.
Click ⧉ to view the video in full screen.
Single-screen ▭ and quad-screen ⊞ are also provided to display playback.


2012/03/05 21:50:30
2012/03/05 21:50:29
2012/03/05 21:50:29
2012/03/05 21:50:29
Play
x1

You can select different buttons to play the videos:



1. **Play**: Click this button to play the video file.
2. **Speed down**: When you click "**speed down**," the recorded video moves slower and the minimum speed is 1/32x.
3. **Pause**: To temporarily stop the playback.
4. **Speed up**: When you click "**speed up**," the recorded video moves faster and the maximum speed is 32x.

Snapshot

You can save the playback image by clicking "**Snapshot**" 📷.

Before taking snapshot from the NVRPRO we recommended you set the snapshot path in "**Preference**" 🔧.

Dewarp for fisheye cameras

By right clicking on the video you can choose the correct dewarp engine for a fisheye camera.

a. Choose the dewarp engine:

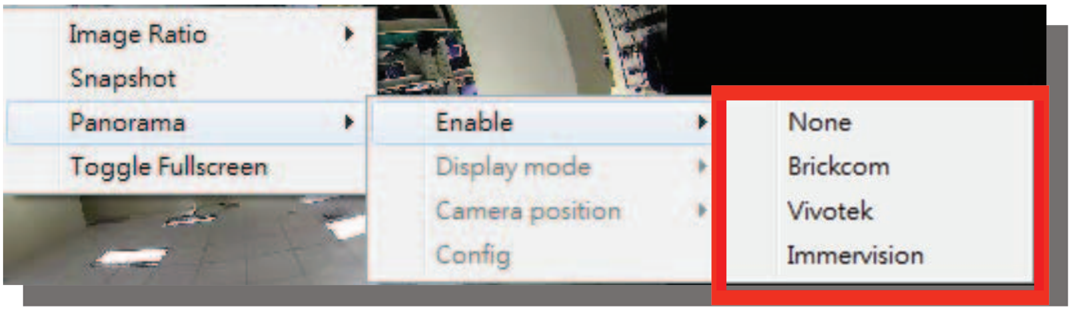


Image Ratio
Snapshot
Panorama
Toggle Fullscreen
Enable
Display mode
Camera position
Config
None
Brickcom
Vivotek
Immervision

b. Choose the mounting type

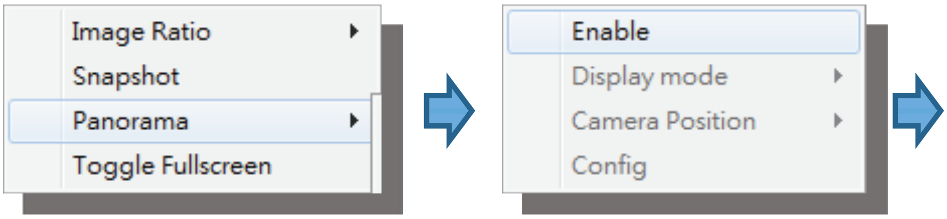
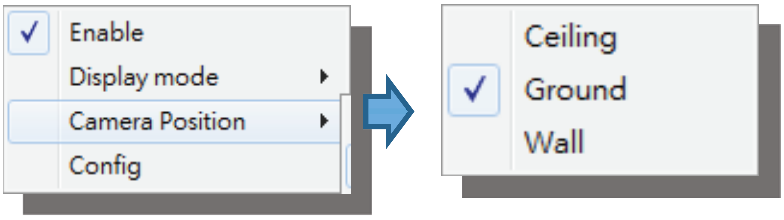
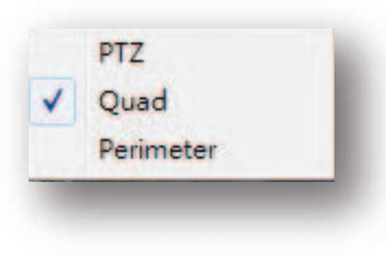


Image Ratio
Snapshot
Panorama
Toggle Fullscreen
Enable
Display mode
Camera Position
Config

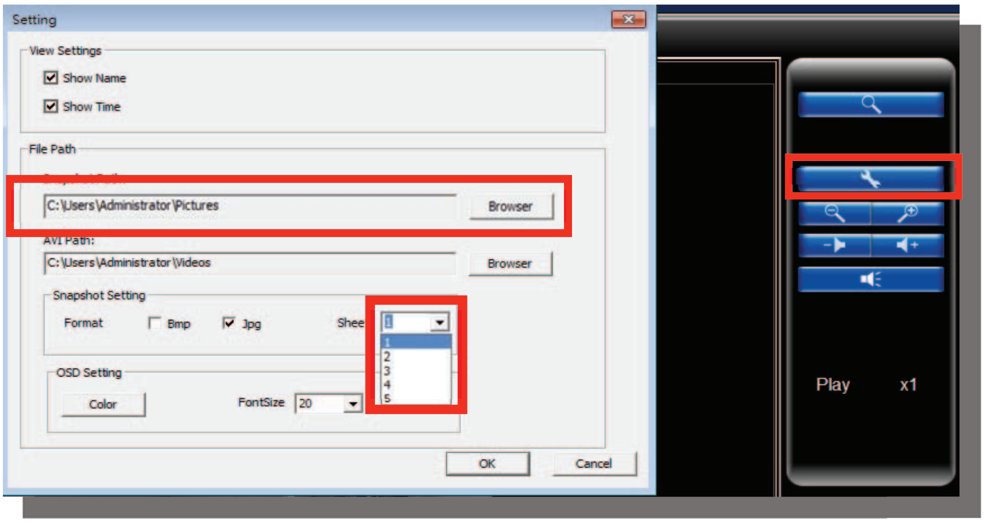

✓ Enable
Display mode
Camera Position
Config
Ceiling
✓ Ground
Wall

c. Choose the display mode


PTZ
✓ Quad
Perimeter

Sequential snapshot in remote playback

Users can have sequential images from the recording video while in playback.
This helps users to catch the key frame in the recorded files.
It can be setup for up to 5 sequential snapshots.



Setting

View Settings

☑ Show Name

☑ Show Time

File Path

C:\Users\Administrator\Pictures Browser

AVI Path:

C:\Users\Administrator\Videos Browser

Snapshot Setting

Format ☐ Bmp ☑ Jpg Shee 1

1
2
3
4
5

OSD Setting

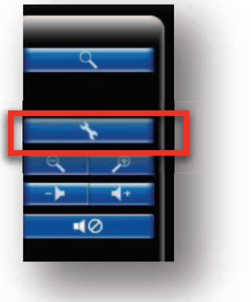
Color FontSize 20

OK
Cancel
Play
x1

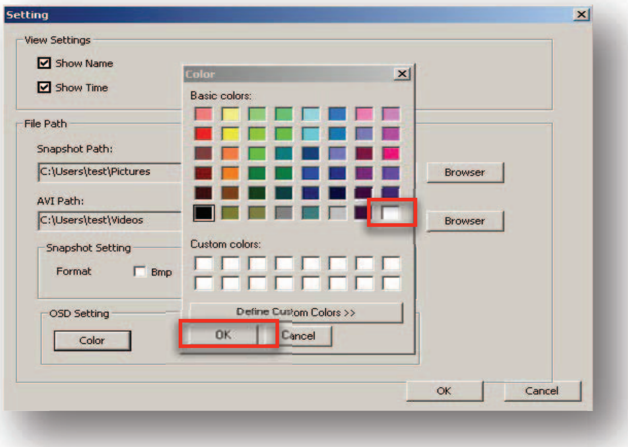
Change the OSD colour

Users can select different OSD colours.

1. Click “preference”



2. Click OSD colour setting button, select the OSD colour and click “OK”

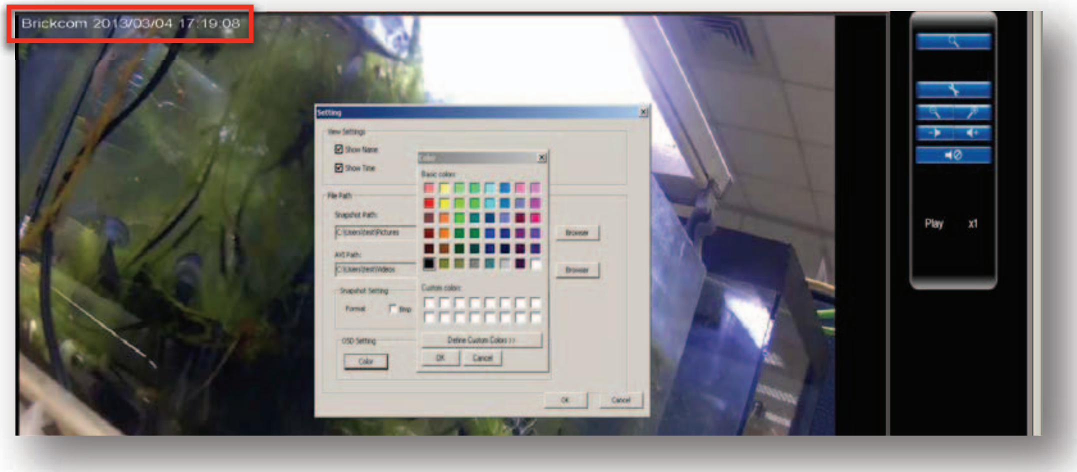


Snapshot Path: C:\Users\test\Pictures

AVI Path: C:\Users\test\Videos

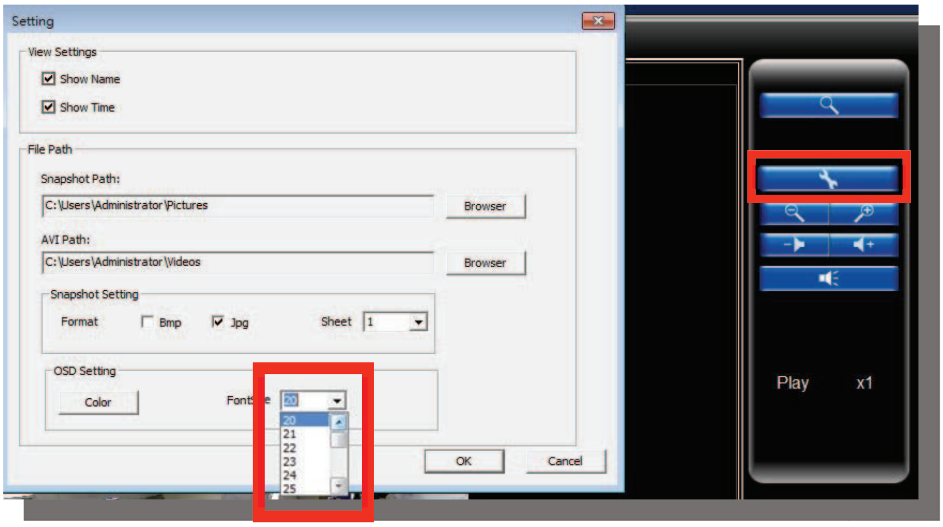
Setting
View Settings
☑ Show Name
☑ Show Time
File Path
Browser
Browser
Snapshot Setting
Format
☐ Bmp
OSD Setting
Color
Color
Basic colors:
Custom colors:
Define Custom Colors >>
OK
Cancel
OK
Cancel

3. Then all OSD colours are shown as per the selection.


Brickcom 2013/03/04 17:19:08
Play
x1

Change the OSD Font Size

The OSD font size can be changed.



Snapshot Path: C:\Users\Administrator\Pictures

AVI Path: C:\Users\Administrator\Videos

Format ☐ Bmp ☑ Jpg

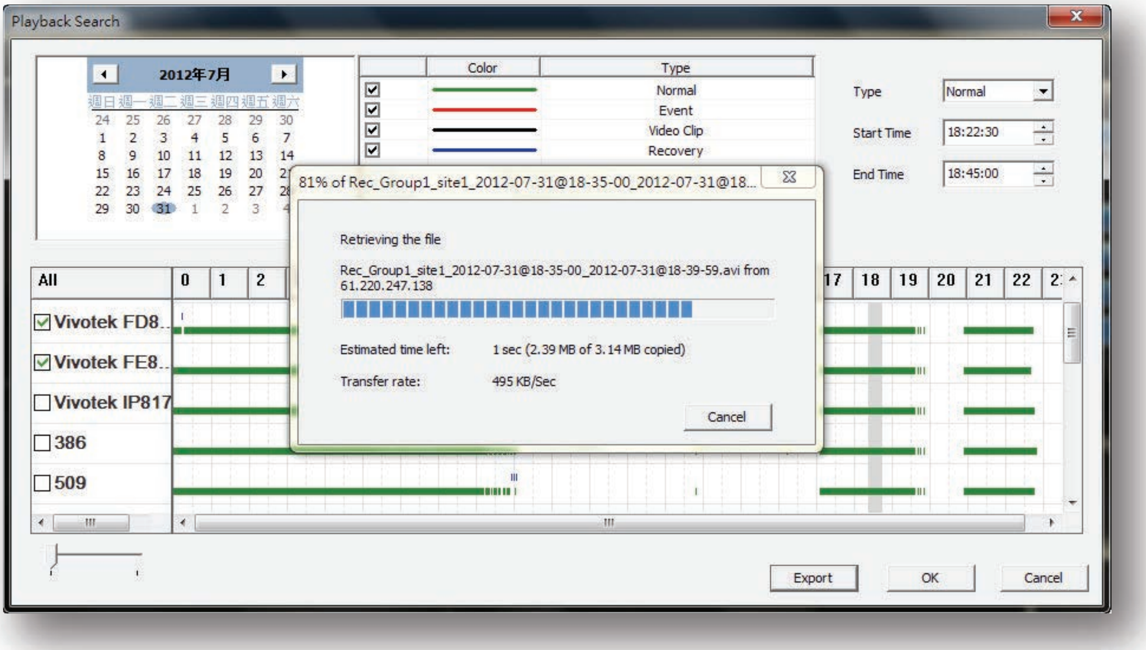
Sheet 1

Font size 20

Setting
View Settings
☑ Show Name
☑ Show Time
File Path
Browser
Browser
Snapshot Setting
OSD Setting
Color
20
21
22
23
24
25
OK
Cancel
Play
x1

Export Files

The Export function allows recorded files to be retrieved from the server.


Playback Search
2012年7月
週日 週一 週二 週三 週四 週五 週六
Color
Type
Export
OK
Cancel
All
Vivotek FD8..
Vivotek FE8..
Vivotek IP817
386
509

☑ Normal
☑ Event
☑ Video Clip
☑ Recovery

Type: Normal

Start Time: 18:22:30

End Time: 18:45:00

81% of Rec_Group1_site1_2012-07-31@18-35-00_2012-07-31@18...

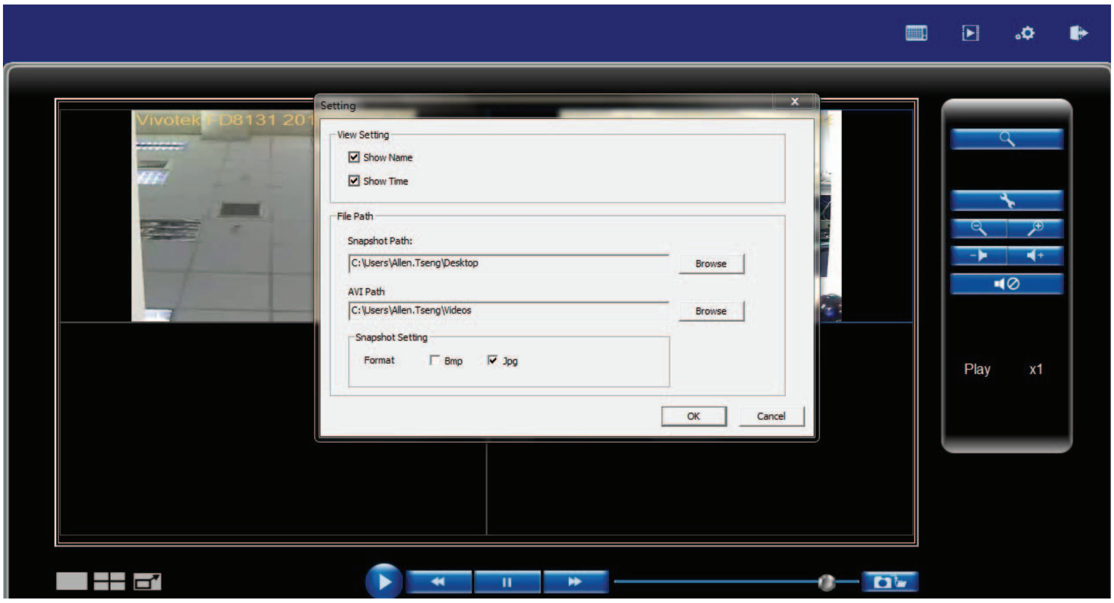
Retrieving the file

Rec_Group1_site1_2012-07-31@18-35-00_2012-07-31@18-39-59.avi from 61.220.247.138

Estimated time left: 1 sec (2.39 MB of 3.14 MB copied)

Transfer rate: 495 KB/Sec

Select the Storage AVI Path


Setting
View Setting
File Path
Browse
Browse
Snapshot Setting
OK
Cancel
Play
x1

☑ Show Name

☑ Show Time

Snapshot Path: C:\Users\Allen.Tseng\Desktop

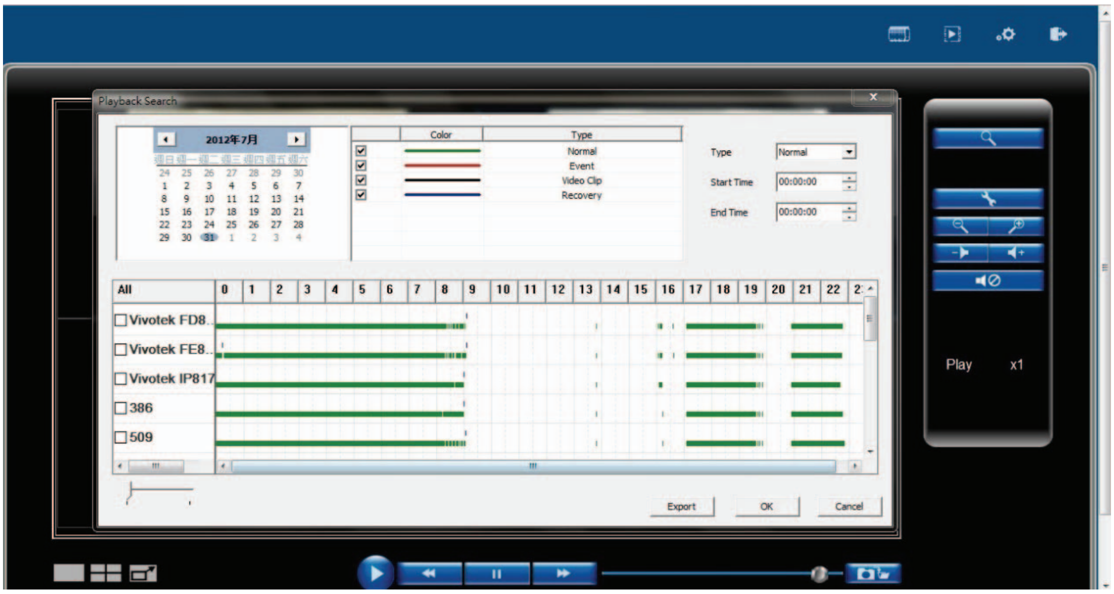
AVI Path: C:\Users\Allen.Tseng\Videos

Format ☐ Bmp ☑ Jpg

From the playback setting page, users can indicate the path where exported **files**, **NVR Player** and **NVR Check** are to be saved.

Select by cameras and the time range

Users can indicate which cameras and what time range is to be exported to the recording file.


Playback Search
2012年7月
All
Vivotek FD8
Vivotek FE8
Vivotek IP817
386
509
Color
Type
Normal
Event
Video Clip
Recovery
Export
OK
Cancel
Play
x1

Type: Normal
Start Time: 00:00:00
End Time: 00:00:00

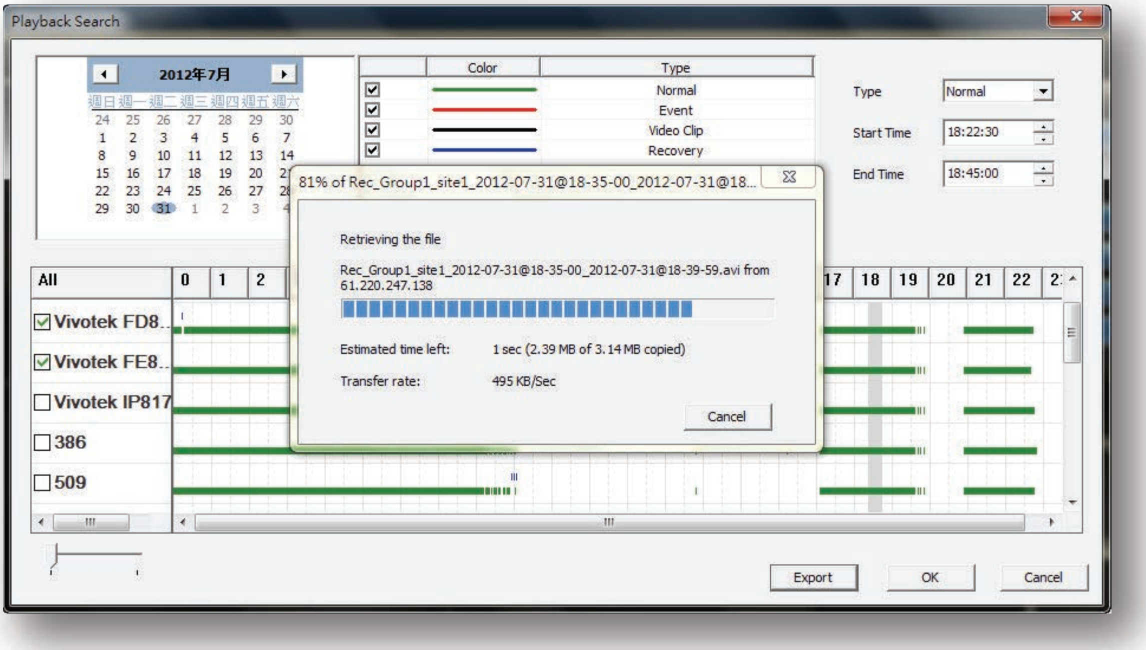
Start to export files from the NVRPRO

By pressing the Export button, the Export process will start.

NVR Player and NVR Check are also downloaded with the video files.

- ⚠NVR Player is the player for the NVRPRO recording files.
- ⚠NVR Check is the verification tool to verify if the recorded files originate from a NVRPRO.

To cancel the transfer.


Playback Search
2012年7月
All
Vivotek FD8...
Vivotek FE8...
Vivotek IP817
386
509
Color
Type
Normal
Event
Video Clip
Recovery
Export
OK
Cancel

☑ Vivotek FD8...
☑ Vivotek FE8...
☐ Vivotek IP817
☐ 386
☐ 509

Type: Normal
Start Time: 18:22:30
End Time: 18:45:00

81% of Rec_Group1_site1_2012-07-31@18-35-00_2012-07-31@18...

Retrieving the file

Rec_Group1_site1_2012-07-31@18-35-00_2012-07-31@18-39-59.avi from 61.220.247.138

Estimated time left: 1 sec (2.39 MB of 3.14 MB copied)

Transfer rate: 495 KB/Sec

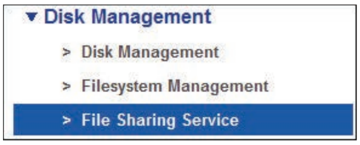
Cancel

Users can cancel the files transfer while downloading files from the NVR.

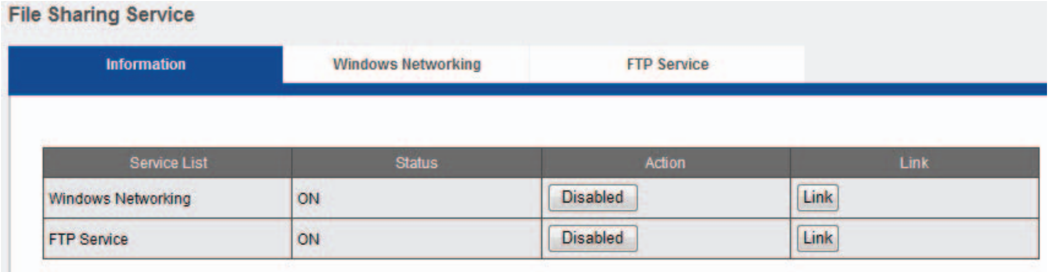
4.3 Play Video Files

User can access the video files with Windows Networking and FTP Service.

⚠ **Note**: To use Windows Networking and FTP Service, please enable both in “**File Sharing Service**” on the configuration page.


▼ Disk Management
> Disk Management
> Filesystem Management
> File Sharing Service

By using the link button on the file sharing service page, users can open the dialogue box directly after the service is enabled.


File Sharing Service
Information
Windows Networking
FTP Service

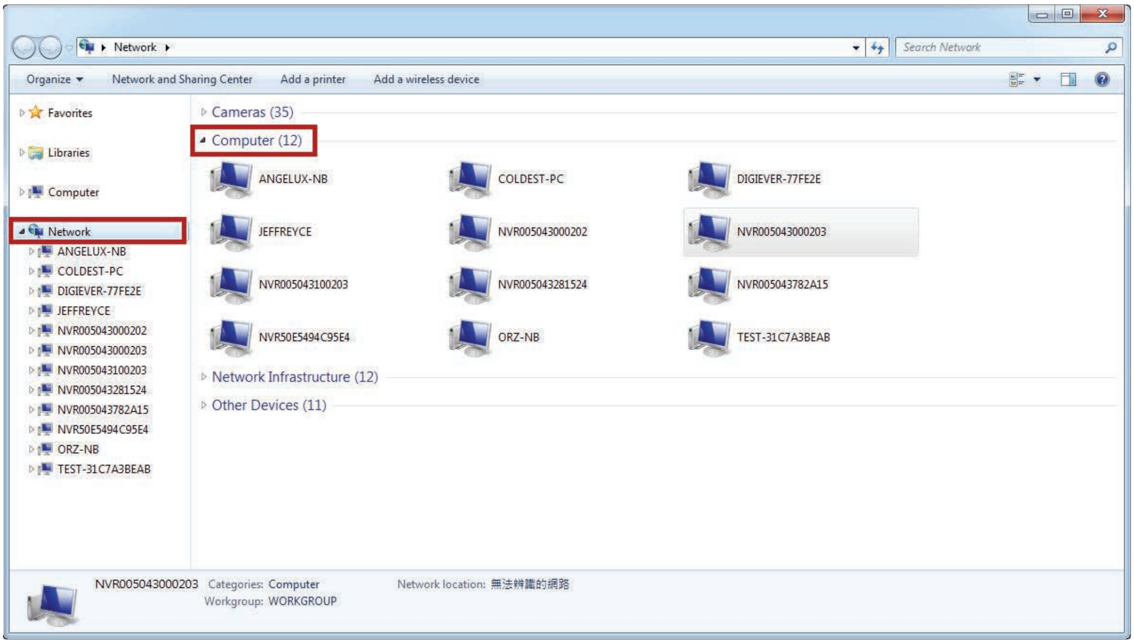
Service List	Status	Action	Link
Windows Networking	ON	Disabled	Link
FTP Service	ON	Disabled	Link

Windows Networking

Through Windows Networking, users can search the video files by choosing a NVRPRO or entering an IP address to search from the Windows Start menu.

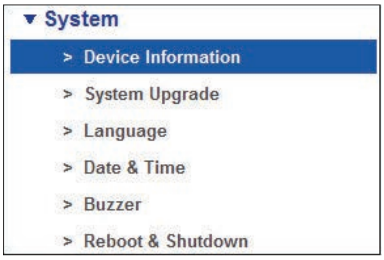
- **Choose a Computer or NVRPRO**

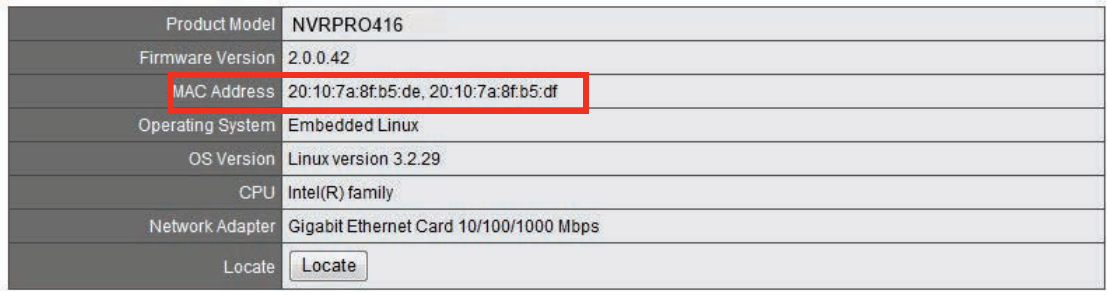
Go to the “**Network**” folder and choose NVRPRO. If more than one server exists in the network, “**Network**” folder displays all servers.


Network
Search Network
Organize
Network and Sharing Center
Add a printer
Add a wireless device
Favorites
Libraries
Computer
Network
ANGELUX-NB
COLDEST-PC
DIGIEVER-77FE2E
JEFFREYCE
NVR005043000202
NVR005043000203
NVR005043100203
NVR005043281524
NVR005043782A15
NVR50E5494C95E4
ORZ-NB
TEST-31C7A3BEAB
Cameras (35)
Computer (12)
ANGELUX-NB
COLDEST-PC
DIGIEVER-77FE2E
JEFFREYCE
NVR005043000202
NVR005043000203
NVR005043100203
NVR005043281524
NVR005043782A15
NVR50E5494C95E4
ORZ-NB
TEST-31C7A3BEAB
Network Infrastructure (12)
Other Devices (11)
NVR005043000203
Categories: Computer
Workgroup: WORKGROUP
Network location: 無法辨識的網路

Note: The name of each connected NVRPRO is derived from the “**Mac Address**” of each NVRPRO in system information and follows the “**Computer Name**” in network information.

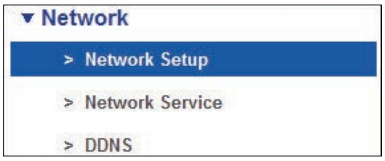
Users can refer to “**System**” > “**Device Information**” > “**System Information**” in the configuration page to acquire the Mac address.

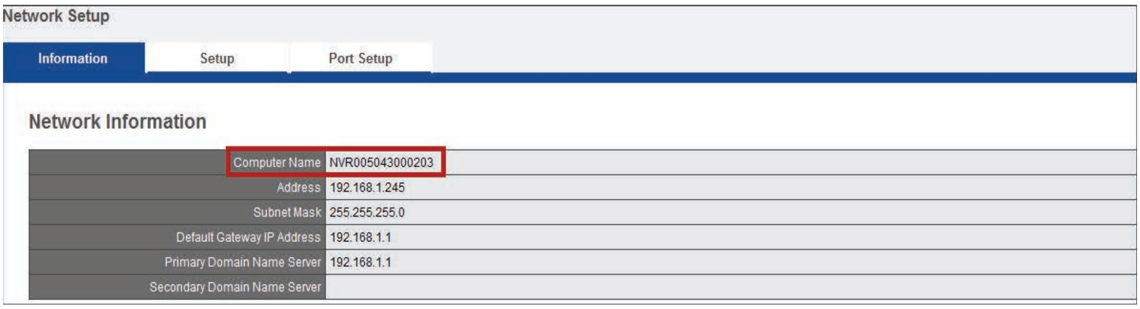

▼ System
> Device Information
> System Upgrade
> Language
> Date & Time
> Buzzer
> Reboot & Shutdown



Product Model	NVRPRO416
Firmware Version	2.0.0.42
MAC Address	20:10:7a:8f:b5:de, 20:10:7a:8f:b5:df
Operating System	Embedded Linux
OS Version	Linux version 3.2.29
CPU	Intel(R) family
Network Adapter	Gigabit Ethernet Card 10/100/1000 Mbps
Locate	Locate

“**Computer Name**” is shown in “**Network**” > “**Network Setup**” > “**Information**” in the configuration page.


▼ Network
> Network Setup
> Network Service
> DDNS

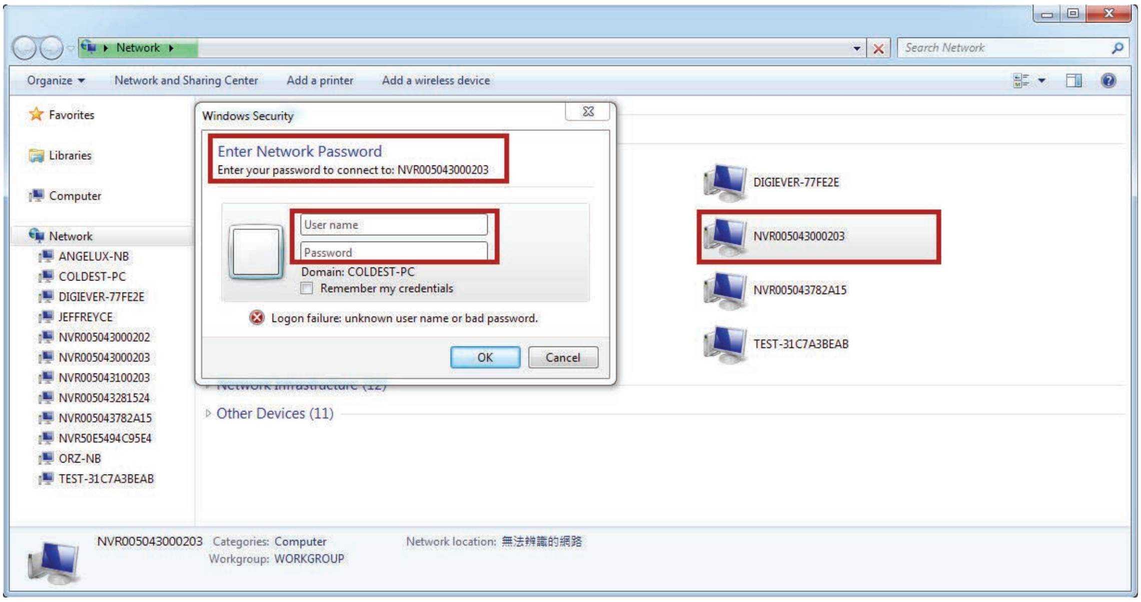

Network Setup
Information
Setup
Port Setup

Network Information

Computer Name	NVR005043000203
Address	192.168.1.245
Subnet Mask	255.255.255.0
Default Gateway IP Address	192.168.1.1
Primary Domain Name Server	192.168.1.1
Secondary Domain Name Server	

For example, the computer name is **NVR005043000203**.
Thus, user can select a NVRPRO in the Network folder by this computer name.

As you select a NVRPRO, a window pops up to ask you to enter the network password.


Network
Search Network
Organize
Network and Sharing Center
Add a printer
Add a wireless device
Favorites
Libraries
Computer
Network
ANGELUX-NB
COLDEST-PC
DIGIEVER-77FE2E
JEFFREYCE
NVR005043000202
NVR005043000203
NVR005043100203
NVR005043281524
NVR005043782A15
NVR50E5494C95E4
ORZ-NB
TEST-31C7A3BEAB
Windows Security
User name
Password
OK
Cancel
DIGIEVER-77FE2E
NVR005043000203
NVR005043782A15
TEST-31C7A3BEAB
Network Infrastructure (12)
Other Devices (11)

Enter Network Password

Enter your password to connect to: NVR005043000203

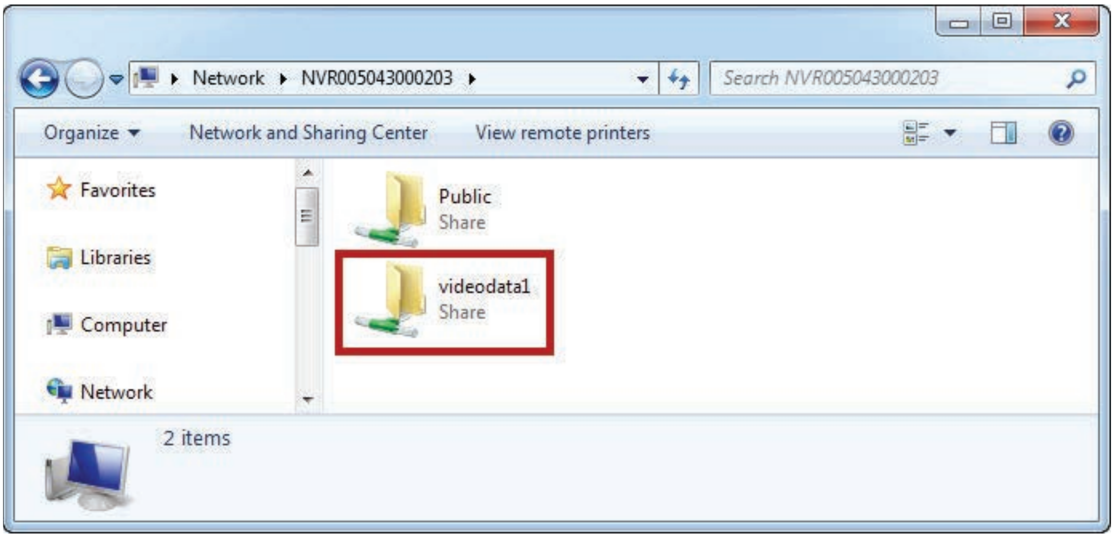
Domain: COLDEST-PC

☐ Remember my credentials

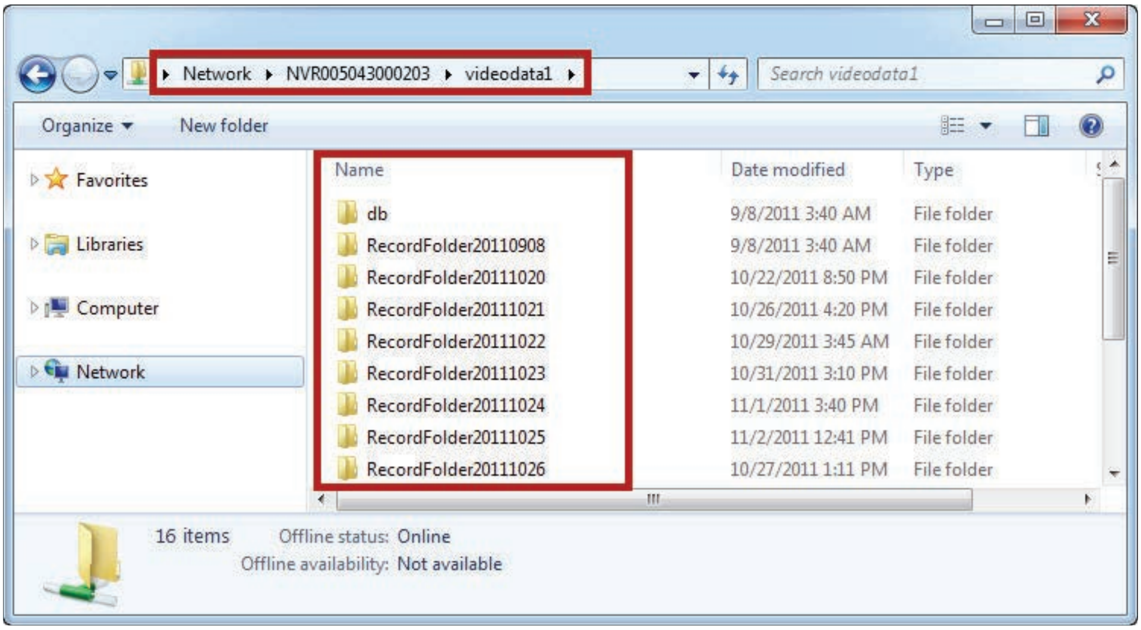
Logon failure: unknown user name or bad password.

NVR005043000203 Categories: Computer Workgroup: WORKGROUP Network location: 無法辨識的網路

If you haven’t amended the user name and password, please enter the default ones: “**admin/admin**.”


Network
NVR005043000203
Search NVR005043000203
Organize
Network and Sharing Center
View remote printers
Favorites
Libraries
Computer
Network
Public
Share
videodata1
Share
2 items

After you enter the correct user name and password, the NVRPRO displays the folder “**Public**” and “**videodata1**.” Please select “**videodata1**” to check the video files.


Network ▸ NVR005043000203 ▸ videodata1 ▸
Search videodata1
Organize
New folder
Favorites
Libraries
Computer
Network

Name	Date modified	Type
db	9/8/2011 3:40 AM	File folder
RecordFolder20110908	9/8/2011 3:40 AM	File folder
RecordFolder20111020	10/22/2011 8:50 PM	File folder
RecordFolder20111021	10/26/2011 4:20 PM	File folder
RecordFolder20111022	10/29/2011 3:45 AM	File folder
RecordFolder20111023	10/31/2011 3:10 PM	File folder
RecordFolder20111024	11/1/2011 3:40 PM	File folder
RecordFolder20111025	11/2/2011 12:41 PM	File folder
RecordFolder20111026	10/27/2011 1:11 PM	File folder

16 items
Offline status: Online
Offline availability: Not available

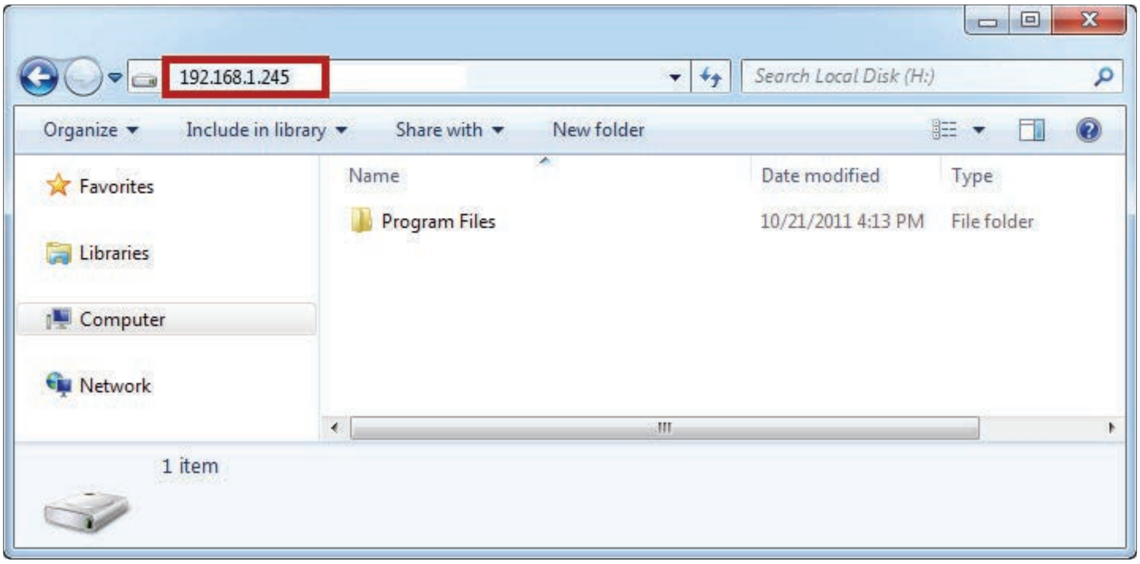
After entering “**videodata1**,” the folder displays the RecordFolders chronologically by recording dates. Select a folder to enter.

All video files are listed chronologically, by recorded time and video length, each chunk is five minutes.

Select a video file to play.

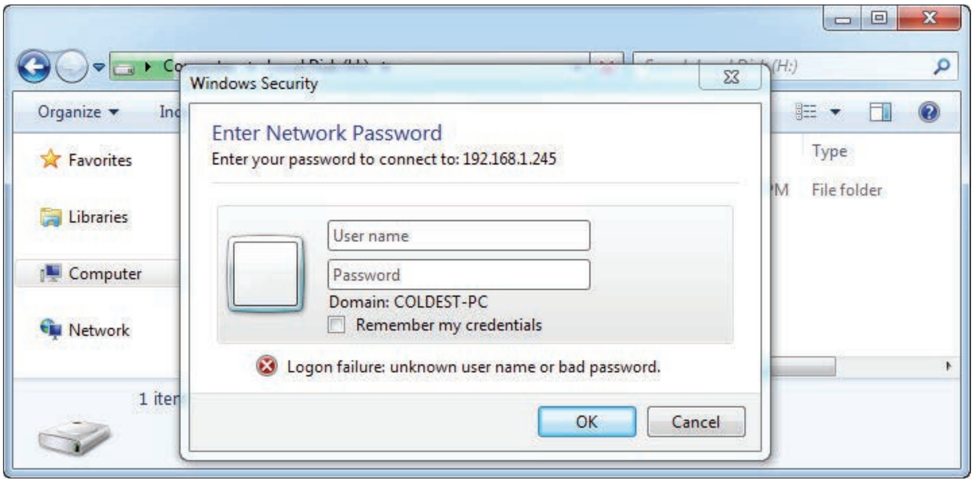
- **Enter IP Address to Search**

Enter a NVR IP address from the Windows Start menu.


192.168.1.245
Search Local Disk (H:)
Organize
Include in library
Share with
New folder
Favorites
Libraries
Computer
Network

Name	Date modified	Type
Program Files	10/21/2011 4:13 PM	File folder

1 item


Organize
Favorites
Libraries
Computer
Network
Type
File folder
1 item
OK
Cancel

Windows Security

Enter Network Password

Enter your password to connect to: 192.168.1.245

User name

Password

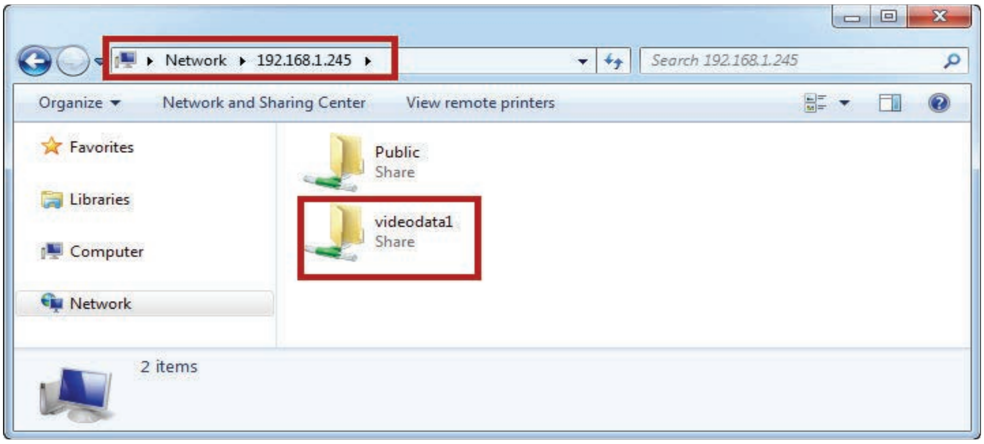
Domain: COLDEST-PC

☐ Remember my credentials

Logon failure: unknown user name or bad password.

After you enter the IP address, a window will pop up to ask for the network password. If you haven't amended the user name and password, please enter the default ones: "**admin/admin**."

After you enters the correct user name and password, the NVR folder displays the folder "**videodata1**." Select a RecordFolder and a video file to play.


Organize
Network and Sharing Center
View remote printers
Favorites
Libraries
Computer
Network

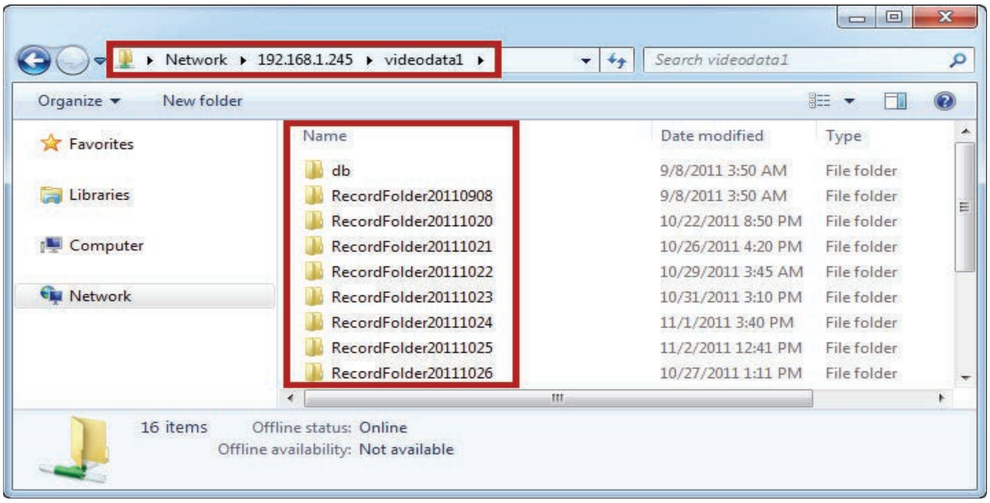
Network ▸ 192.168.1.245 ▸

Search 192.168.1.245

Public
Share

videodata1
Share

2 items


Organize
New folder
Favorites
Libraries
Computer
Network

Network ▸ 192.168.1.245 ▸ videodata1 ▸

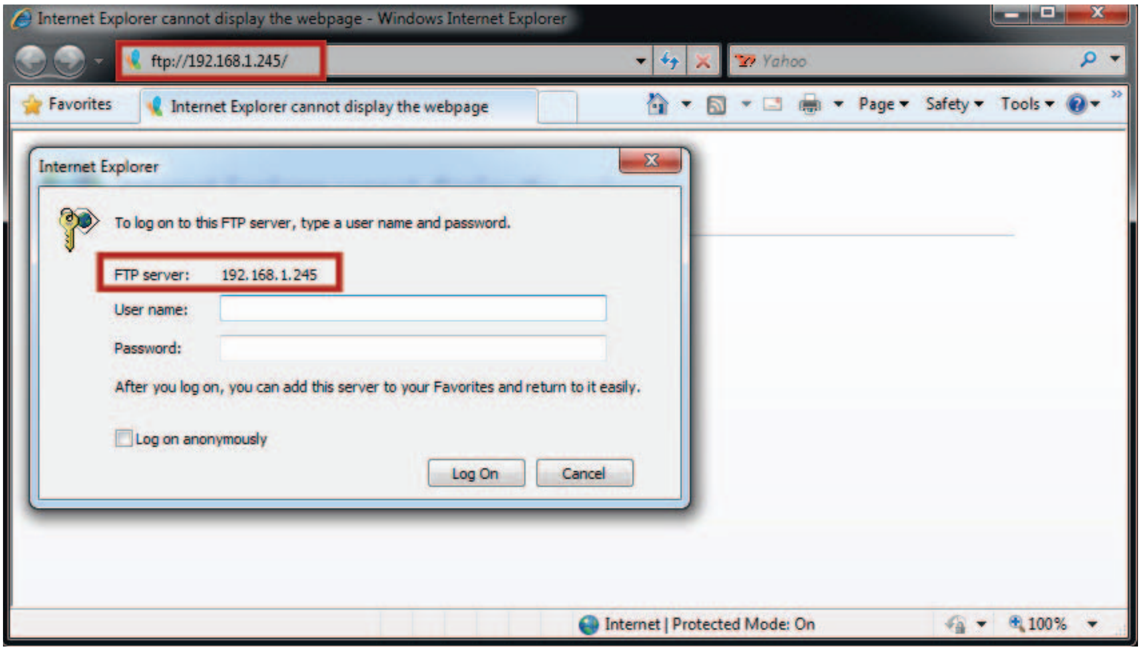
Search videodata1

Name	Date modified	Type
db	9/8/2011 3:50 AM	File folder
RecordFolder20110908	9/8/2011 3:50 AM	File folder
RecordFolder20111020	10/22/2011 8:50 PM	File folder
RecordFolder20111021	10/26/2011 4:20 PM	File folder
RecordFolder20111022	10/29/2011 3:45 AM	File folder
RecordFolder20111023	10/31/2011 3:10 PM	File folder
RecordFolder20111024	11/1/2011 3:40 PM	File folder
RecordFolder20111025	11/2/2011 12:41 PM	File folder
RecordFolder20111026	10/27/2011 1:11 PM	File folder

16 items Offline status: Online
Offline availability: Not available

FTP Service

To access the FTP service in a web-based interface, open Windows Internet Explorer and enter the NVR IP address which has been configured.



Internet Explorer cannot display the webpage - Windows Internet Explorer

ftp://192.168.1.245/

Internet Explorer

To log on to this FTP server, type a user name and password.

FTP server: 192.168.1.245

User name:

Password:

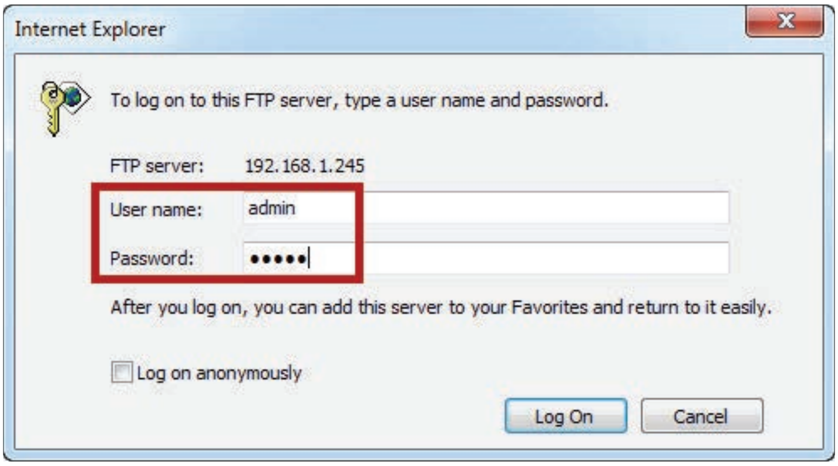
After you log on, you can add this server to your Favorites and return to it easily.

☐ Log on anonymously

Internet | Protected Mode: On

Yahoo
Favorites
Internet Explorer cannot display the webpage
Page
Safety
Tools
Log On
Cancel
100%

After you enter the IP address, a window will pop up to ask for the user name and password to login to the FTP server. If you haven't amended the user name and password, please enter the default ones: "**admin/admin**."



Internet Explorer

To log on to this FTP server, type a user name and password.

FTP server: 192.168.1.245

User name: admin

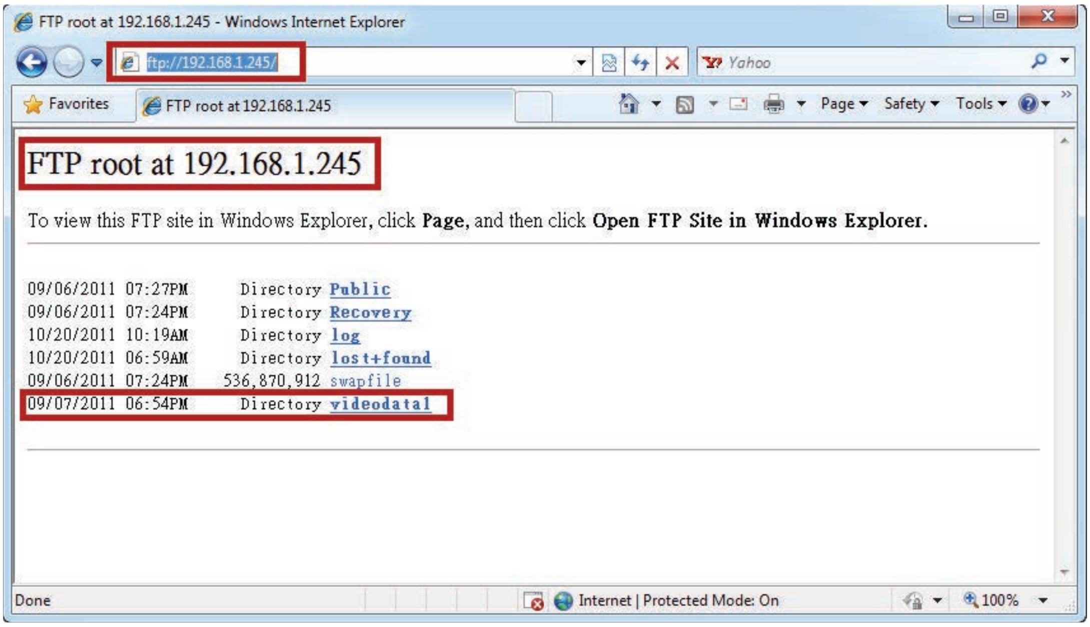
Password: •••••

After you log on, you can add this server to your Favorites and return to it easily.

☐ Log on anonymously

Log On
Cancel

Please click "**Log On**" to proceed.

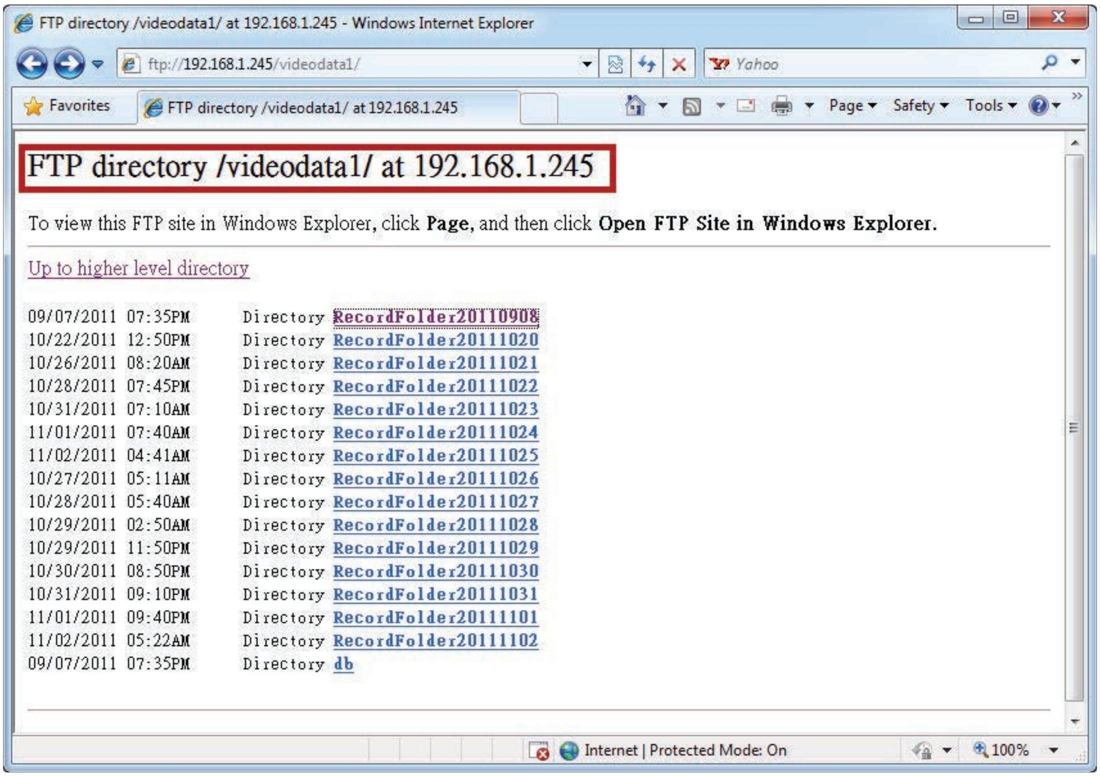

FTP root at 192.168.1.245 - Windows Internet Explorer
ftp://192.168.1.245/
Yahoo
Favorites
FTP root at 192.168.1.245
Page
Safety
Tools
Done
Internet | Protected Mode: On
100%

FTP root at 192.168.1.245

To view this FTP site in Windows Explorer, click **Page**, and then click **Open FTP Site in Windows Explorer**.

```
09/06/2011 07:27PM      Directory Public
09/06/2011 07:24PM      Directory Recovery
10/20/2011 10:19AM      Directory log
10/20/2011 06:59AM      Directory lost+found
09/06/2011 07:24PM    536,870,912 swapfile
09/07/2011 06:54PM      Directory videodata1
```

IE browser shows the folders on the FTP server. Please select folder “**videodata1**”.


FTP directory /videodata1/ at 192.168.1.245 - Windows Internet Explorer
ftp://192.168.1.245/videodata1/
Yahoo
Favorites
FTP directory /videodata1/ at 192.168.1.245
Page
Safety
Tools
Internet | Protected Mode: On
100%

FTP directory /videodata1/ at 192.168.1.245

To view this FTP site in Windows Explorer, click **Page**, and then click **Open FTP Site in Windows Explorer**.

Up to higher level directory

```
09/07/2011 07:35PM      Directory RecordFolder20110908
10/22/2011 12:50PM      Directory RecordFolder20111020
10/26/2011 08:20AM      Directory RecordFolder20111021
10/28/2011 07:45PM      Directory RecordFolder20111022
10/31/2011 07:10AM      Directory RecordFolder20111023
11/01/2011 07:40AM      Directory RecordFolder20111024
11/02/2011 04:41AM      Directory RecordFolder20111025
10/27/2011 05:11AM      Directory RecordFolder20111026
10/28/2011 05:40AM      Directory RecordFolder20111027
10/29/2011 02:50AM      Directory RecordFolder20111028
10/29/2011 11:50PM      Directory RecordFolder20111029
10/30/2011 08:50PM      Directory RecordFolder20111030
10/31/2011 09:10PM      Directory RecordFolder20111031
11/01/2011 09:40PM      Directory RecordFolder20111101
11/02/2011 05:22AM      Directory RecordFolder20111102
09/07/2011 07:35PM      Directory db
```

The folder displays RecordFolders chronologically; by recording dates. Please select a folder to enter.

All video files are listed chronologically, by recorded time and video length, each chunk is five minutes.

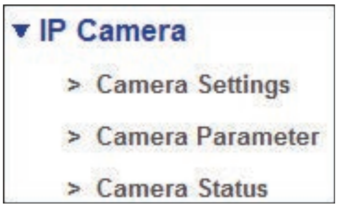
Select a video file to play.

5. Configuration

In the configuration page you can configure **Quick Configuration**, **IP Camera**, **Recording & Event**, **Disk Management**, **Network Management** and **System** from each drop-down menu.

⚠ **No**te: The NVRPRO automatically logs out from the configuration page after being idle for 10 minutes.

5.1 IP Camera

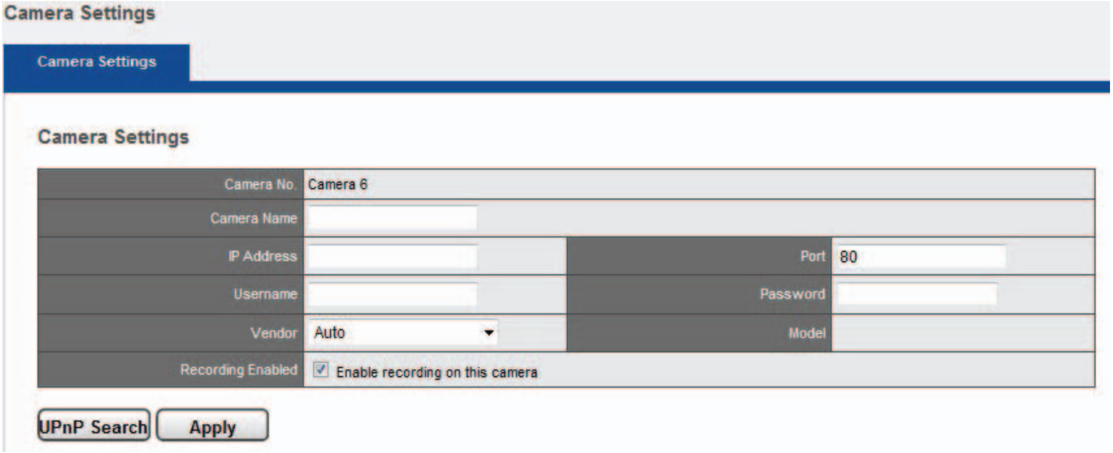

▼ IP Camera
> Camera Settings
> Camera Parameter
> Camera Status

Camera Settings

- **Camera settings**

The NVRPRO provides two options for adding cameras.

1. **UPnP Search**
2. **Detect**

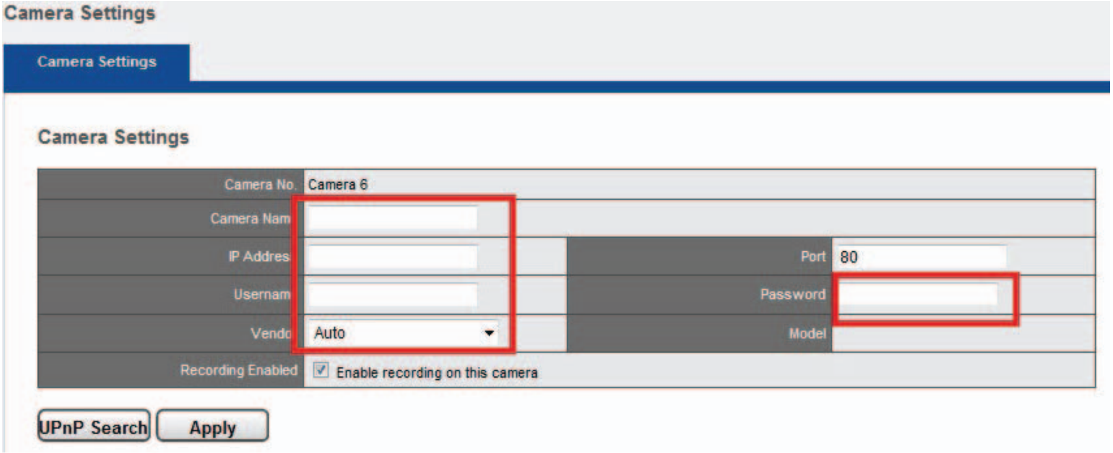

Camera Settings
Camera Settings
UPnP Search
Apply

Camera Settings

Camera No.	Camera 6		
Camera Name			
IP Address		Port	80
Username		Password	
Vendor	Auto	Model	
Recording Enabled	☑ Enable recording on this camera		

Detect:

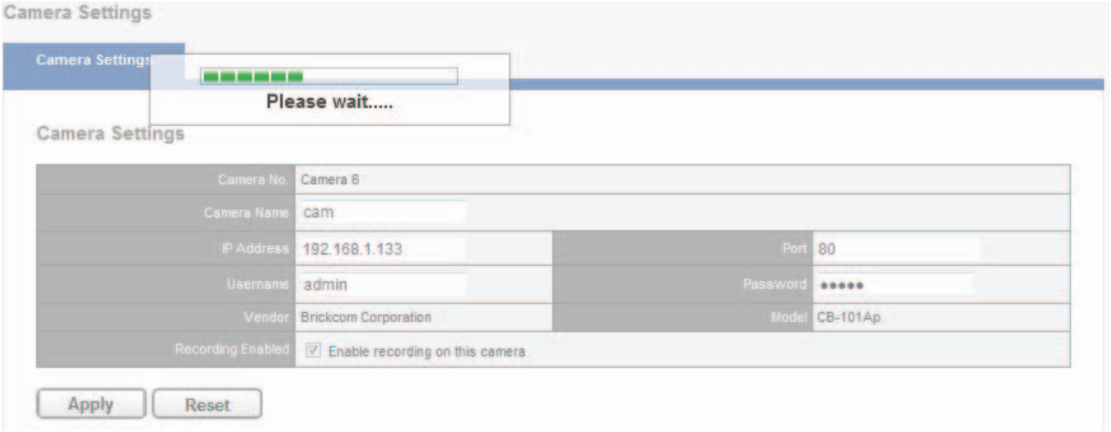
In this option you should enter the **Camera Name, IP Address, User Name, Password and select vendor** or **Auto.**


Camera Settings
Camera Settings
Camera Settings

Camera No.	Camera 6		
Camera Nam			
IP Addres		Port	80
Usernam		Password	
Vendo	Auto	Model	
Recording Enabled	☑ Enable recording on this camera		

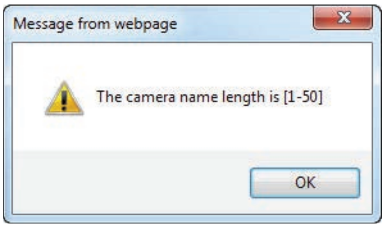
UPnP Search
Apply

Then click “**Apply**.”


Camera Settings
Camera Settings
Please wait.....
Camera Settings

Camera No.	Camera 6		
Camera Name	cam		
IP Address	192.168.1.133	Port	80
Username	admin	Password	●●●●●
Vendor	Brickcom Corporation	Model	CB-101Ap
Recording Enabled	☑ Enable recording on this camera		

Apply
Reset

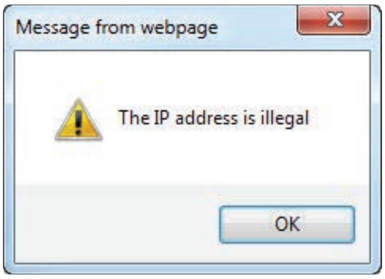

Message from webpage

The camera name length is [1-50]

OK

When an error occurred when entering the above information a notification window will pop up.

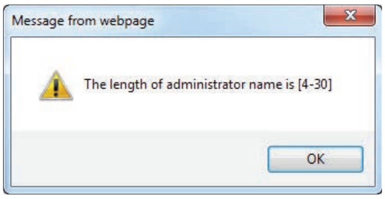
If an inappropriate address is entered, a window pops up, as shown below.


Message from webpage

The IP address is illegal

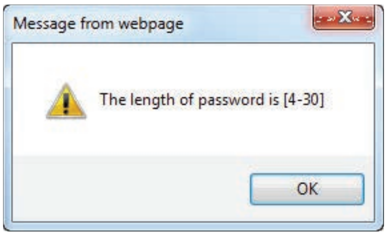
OK

If an inappropriate user name is entered, a window will pop up, as shown below.



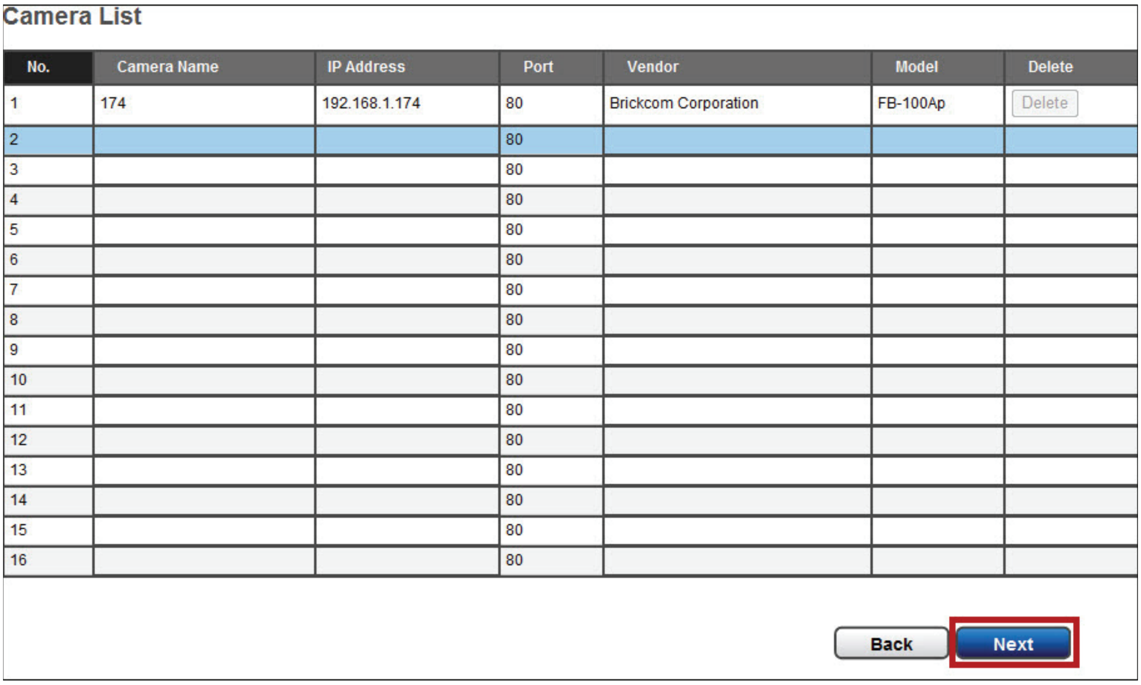
The length of administrator name is [4-30]

When an inappropriate password is entered, a window will pop up, as shown below.



The length of password is [4-30]

After the detection is complete, the camera list shows the connected cameras showing the **Camera Name**, **IP Address**, **Port**, **Vendor** and **Mode**.

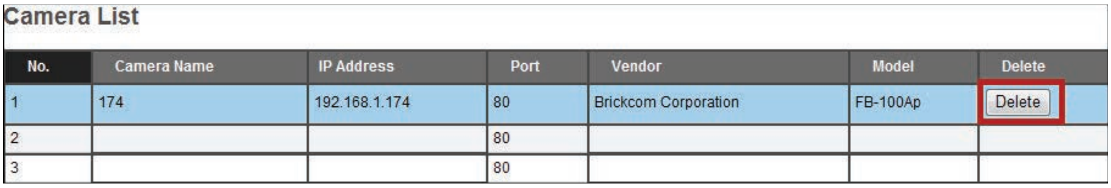


Camera List

No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1	174	192.168.1.174	80	Brickcom Corporation	FB-100Ap	Delete
2			80			
3			80			
4			80			
5			80			
6			80			
7			80			
8			80			
9			80			
10			80			
11			80			
12			80			
13			80			
14			80			
15			80			
16			80			

All applied cameras are shown in the Camera List and if no more cameras needs to be connected click “**Next**” to continue configuration.

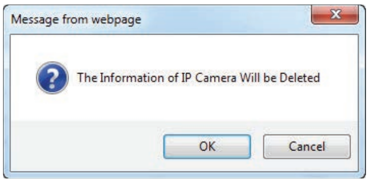
If any camera requires deletion from camera list, click the column which will then turn blue and click “**Delete**.”



Camera List

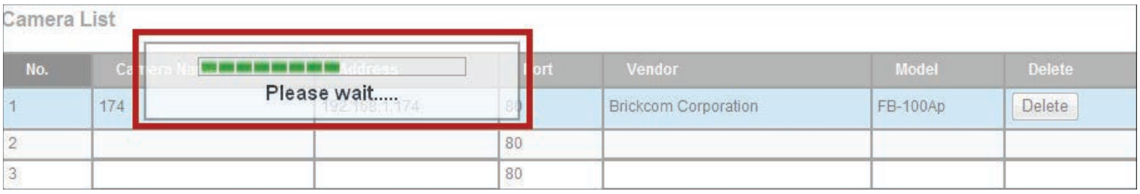
No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1	174	192.168.1.174	80	Brickcom Corporation	FB-100Ap	Delete
2			80			
3			80			

A window will pop up to confirm the deletion.



The Information of IP Camera Will be Deleted

To delete the camera, click “**OK**” to proceed.

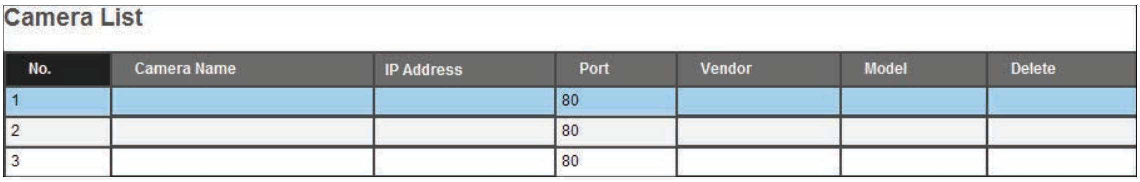


Camera List

Please wait.....

No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1	174	192.168.1.174	80	Brickcom Corporation	FB-100Ap	Delete
2			80			
3			80			

Please wait. The deletion is in a process.



Camera List

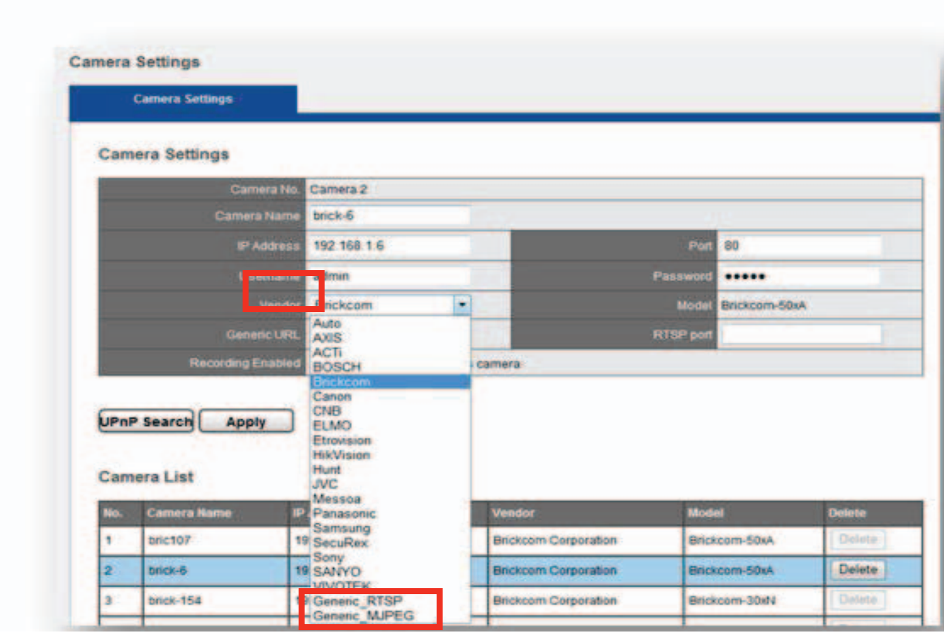
No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1			80			
2			80			
3			80			

The camera has been deleted from camera list.

Generic RTSP/ Generic MJPEG

The NVRPRO provides the interface for users to enter the RTSP/ MJPEG URL’s of IP cameras to receive their video streams. The streaming is applied to monitoring, recording and playback.

Generic RTSP and Generic MJPEG functions can be selected in the vendor list of the camera setting page.


Camera Settings
Camera Settings
Auto
AXIS
ACTi
BOSCH
Brickcom
Canon
CNB
ELMO
Etrovision
HikVision
Hunt
JVC
Messoa
Panasonic
Samsung
SecuRex
Sony
SANYO
VIVOTEK
Generic_RTSP
Generic_MJPEG
UPnP Search
Apply
Delete

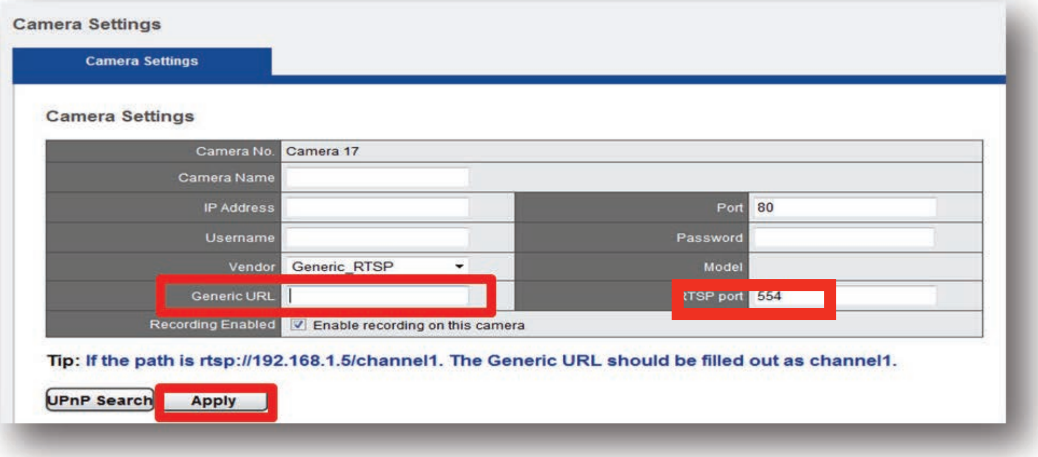
Camera Settings

Camera No. Camera 2
Camera Name brick-6
IP Address 192.168.1.6
Port 80
Password •••••
Vendor Brickcom
Model Brickcom-50xA
Generic URL
RTSP port
Recording Enabled

Camera List

No.	Camera Name	IP	Vendor	Model	Delete
1	bric107	19	Brickcom Corporation	Brickcom-50xA	Delete
2	brick-6	19	Brickcom Corporation	Brickcom-50xA	Delete
3	brick-154		Brickcom Corporation	Brickcom-30xN	Delete

Enter the Generic URL column with the correct RTSP or MJPEG URL’s. If Generic RTSP is selected, the RTSP port should be filled out too. Click “apply” to enable the parameters.


Camera Settings
Camera Settings
UPnP Search
Apply

Camera Settings

Camera No. Camera 17
Camera Name
IP Address
Port 80
Username
Password
Vendor Generic_RTSP
Model
Generic URL
RTSP port 554
Recording Enabled ☑ Enable recording on this camera

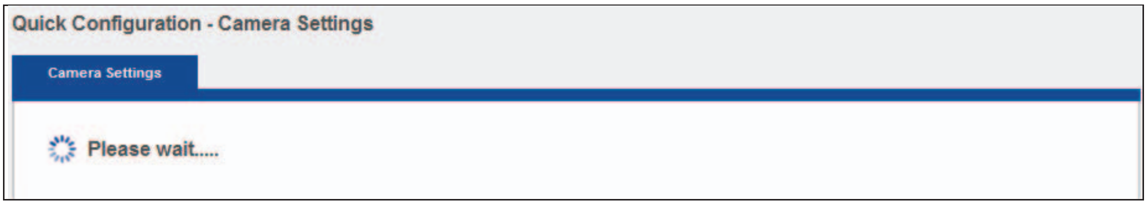
Tip: If the path is rtsp://192.168.1.5/channel1. The Generic URL should be filled out as channel1.

⚠The correct URL’s should be provided for each camera vendor.
⚠Users can also refer to websites

- https://www.soleratec.com/rtsp/`
- http://www.ispyconnect.com/sources.aspx

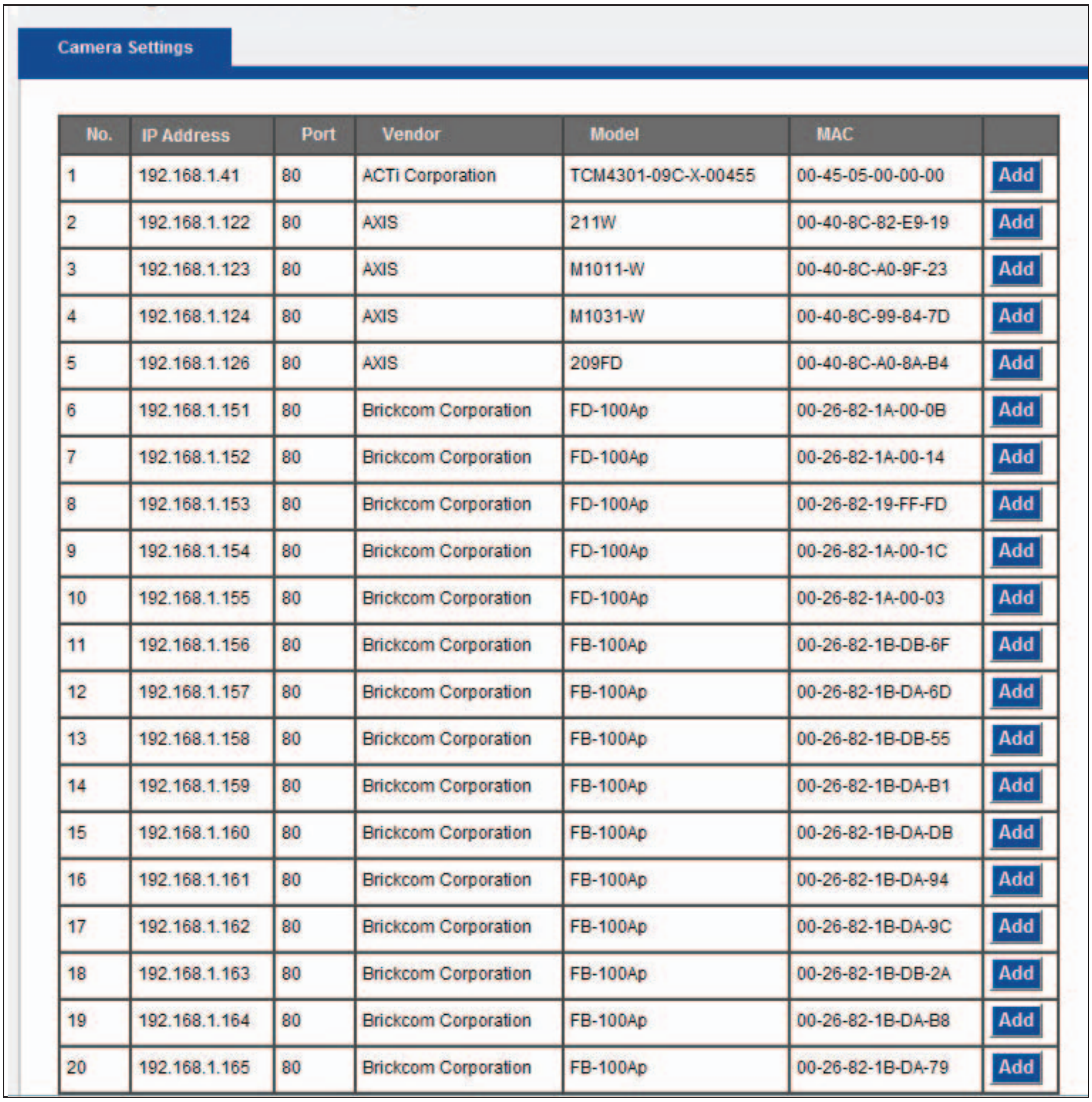
Camera Search

Click “**UPnP Search**” to find out UPnP devices within the LAN.



Please wait.....

Please wait. The UPnP search is in a process.



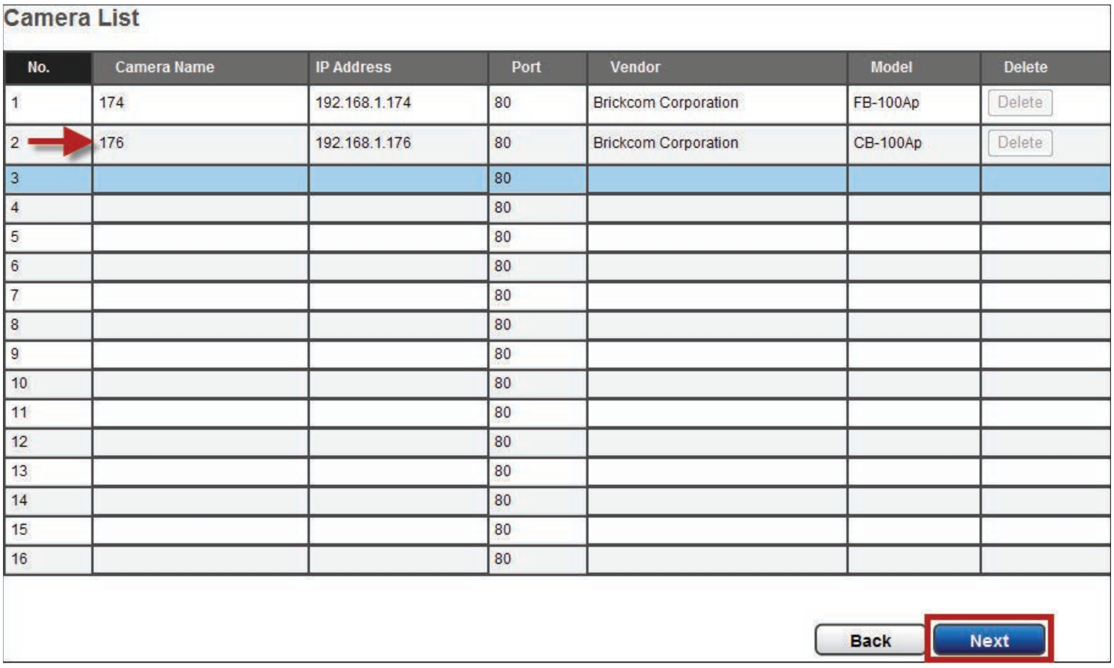
No.	IP Address	Port	Vendor	Model	MAC	
1	192.168.1.41	80	ACTi Corporation	TCM4301-09C-X-00455	00-45-05-00-00-00	Add
2	192.168.1.122	80	AXIS	211W	00-40-8C-82-E9-19	Add
3	192.168.1.123	80	AXIS	M1011-W	00-40-8C-A0-9F-23	Add
4	192.168.1.124	80	AXIS	M1031-W	00-40-8C-99-84-7D	Add
5	192.168.1.126	80	AXIS	209FD	00-40-8C-A0-8A-B4	Add
6	192.168.1.151	80	Brickcom Corporation	FD-100Ap	00-26-82-1A-00-0B	Add
7	192.168.1.152	80	Brickcom Corporation	FD-100Ap	00-26-82-1A-00-14	Add
8	192.168.1.153	80	Brickcom Corporation	FD-100Ap	00-26-82-19-FF-FD	Add
9	192.168.1.154	80	Brickcom Corporation	FD-100Ap	00-26-82-1A-00-1C	Add
10	192.168.1.155	80	Brickcom Corporation	FD-100Ap	00-26-82-1A-00-03	Add
11	192.168.1.156	80	Brickcom Corporation	FB-100Ap	00-26-82-1B-DB-6F	Add
12	192.168.1.157	80	Brickcom Corporation	FB-100Ap	00-26-82-1B-DA-6D	Add
13	192.168.1.158	80	Brickcom Corporation	FB-100Ap	00-26-82-1B-DB-55	Add
14	192.168.1.159	80	Brickcom Corporation	FB-100Ap	00-26-82-1B-DA-B1	Add
15	192.168.1.160	80	Brickcom Corporation	FB-100Ap	00-26-82-1B-DA-DB	Add
16	192.168.1.161	80	Brickcom Corporation	FB-100Ap	00-26-82-1B-DA-94	Add
17	192.168.1.162	80	Brickcom Corporation	FB-100Ap	00-26-82-1B-DA-9C	Add
18	192.168.1.163	80	Brickcom Corporation	FB-100Ap	00-26-82-1B-DB-2A	Add
19	192.168.1.164	80	Brickcom Corporation	FB-100Ap	00-26-82-1B-DA-B8	Add
20	192.168.1.165	80	Brickcom Corporation	FB-100Ap	00-26-82-1B-DA-79	Add

The available cameras in the network will be displayed.

Add any camera you want by clicking “**Add**” from the list one by one.

After the search, the window displays **IP Address, Port**, **Vendor** and **Model**, but user should manually enter the **Camera Name**, **User Name**, and

Password to apply the setting.
Please click “**Apply**” to start connecting to the IP camera.



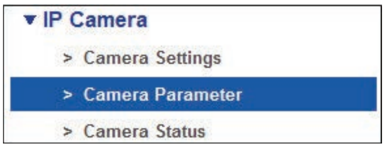
Camera List

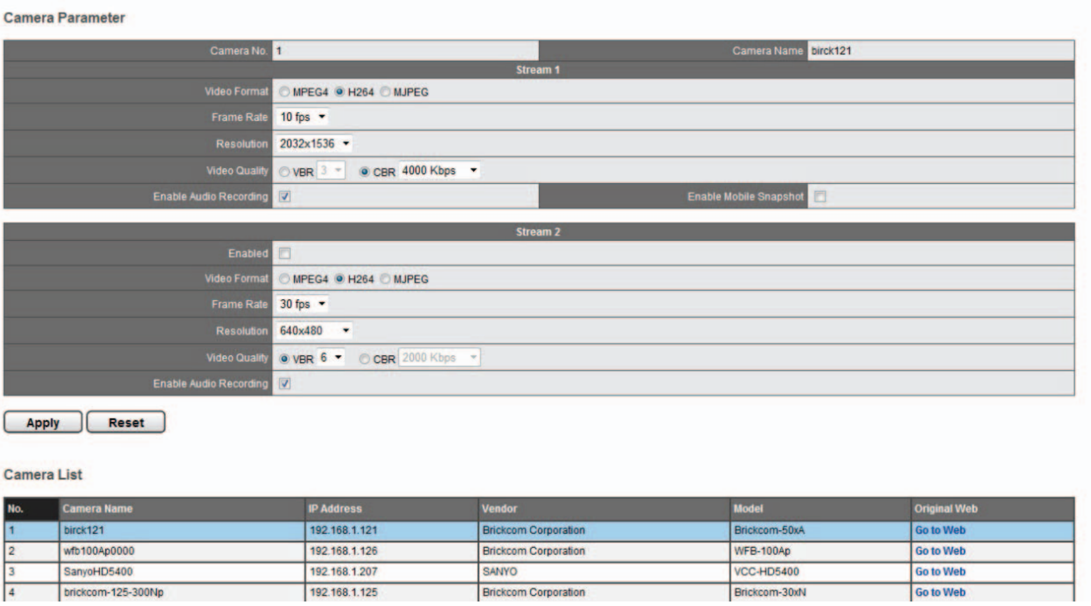
No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1	174	192.168.1.174	80	Brickcom Corporation	FB-100Ap	Delete
2	176	192.168.1.176	80	Brickcom Corporation	CB-100Ap	Delete
3			80			
4			80			
5			80			
6			80			
7			80			
8			80			
9			80			
10			80			
11			80			
12			80			
13			80			
14			80			
15			80			
16			80			

All applied cameras are shown in Camera List, and If no more cameras need to be connected click “**Next**” to continue.
You can also click “**Delete**” to disconnect the camera.

Camera Parameter

Select “**Camera Parameter**” from the drop-down menu of the **IP Camera** to begin.




Camera Parameter

Camera No.	1	Camera Name	birck121
Stream 1			
Video Format	○ MPEG4 ● H264 ○ MJPEG		
Frame Rate	10 fps		
Resolution	2032x1536		
Video Quality	○ VBR 3 ● CBR 4000 Kbps		
Enable Audio Recording	☑	Enable Mobile Snapshot	☐

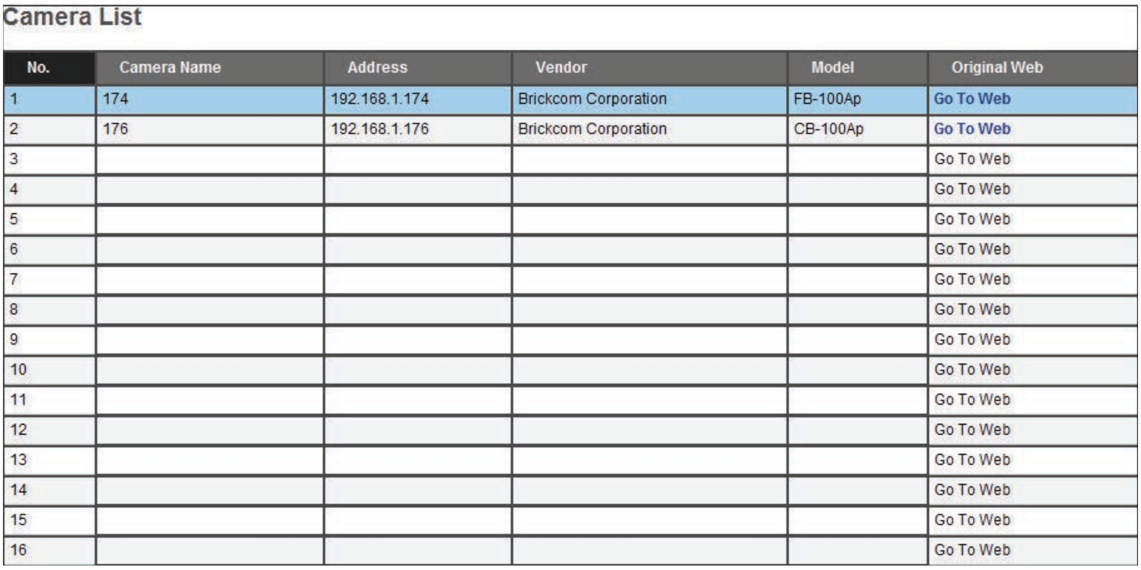
Stream 2	
Enabled	☐
Video Format	○ MPEG4 ● H264 ○ MJPEG
Frame Rate	30 fps
Resolution	640x480
Video Quality	● VBR 6 ○ CBR 2000 Kbps
Enable Audio Recording	☑

Camera List

No.	Camera Name	IP Address	Vendor	Model	Original Web
1	birck121	192.168.1.121	Brickcom Corporation	Brickcom-50xA	Go to Web
2	wfb100Ap0000	192.168.1.126	Brickcom Corporation	WFB-100Ap	Go to Web
3	SanyoHD5400	192.168.1.207	SANYO	VCC-HD5400	Go to Web
4	brickcom-125-300Np	192.168.1.125	Brickcom Corporation	Brickcom-30xN	Go to Web

NVRPRO supports multi-stream for monitoring and recording. Users can modify the camera’s configuration, such as, video format, frame rate, resolution, video quality, audio enable and stream target via the NVRPRO in this page.

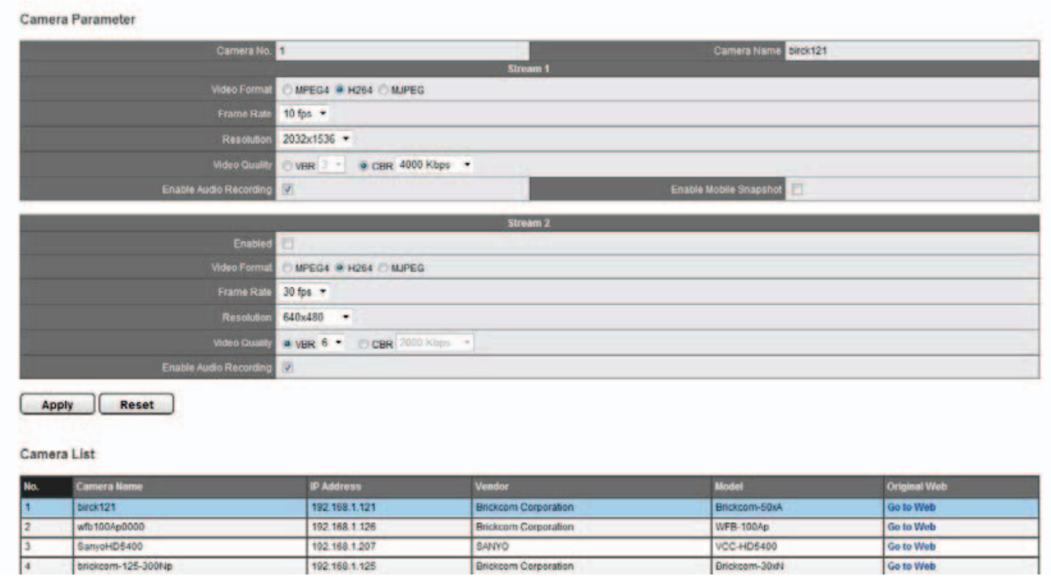
There are two parts in this section: **Parameter** and **Camera List**.
Please select a camera **Camera List** first.



Camera List

No.	Camera Name	Address	Vendor	Model	Original Web
1	174	192.168.1.174	Brickcom Corporation	FB-100Ap	Go To Web
2	176	192.168.1.176	Brickcom Corporation	CB-100Ap	Go To Web
3					Go To Web
4					Go To Web
5					Go To Web
6					Go To Web
7					Go To Web
8					Go To Web
9					Go To Web
10					Go To Web
11					Go To Web
12					Go To Web
13					Go To Web
14					Go To Web
15					Go To Web
16					Go To Web

As you click a column it turns blue. Please wait and the window shown below appears to allow you to configure multi-stream.



Camera Parameter

Camera No. 1
Camera Name birck121

Stream 1

Video Format ○ MPEG4 ● H264 ○ MJPEG
Frame Rate 10 fps
Resolution 2032x1536
Video Quality ○ VBR 3 ● CBR 4000 Kbps
Enable Audio Recording ☑
Enable Mobile Snapshot ☐

Stream 2

Enabled ☐
Video Format ○ MPEG4 ● H264 ○ MJPEG
Frame Rate 30 fps
Resolution 640x480
Video Quality ● VBR 6 ○ CBR 2000 Kbps
Enable Audio Recording ☑

Camera List

No.	Camera Name	IP Address	Vendor	Model	Original Web
1	birck121	192.168.1.121	Brickcom Corporation	Brickcom-50xA	Go to Web
2	wfb100Ap0000	192.168.1.126	Brickcom Corporation	WFB-100Ap	Go to Web
3	SanyoHD5400	192.168.1.207	SANYO	VCC-HD5400	Go to Web
4	brickcom-125-300Np	192.168.1.125	Brickcom Corporation	Brickcom-30xN	Go to Web

After loading the camera's information, you can modify the camera parameters.

- **Video Format**

  Choose a video compression format for live view and recording: MPEG4, H.264 and MJPEG.

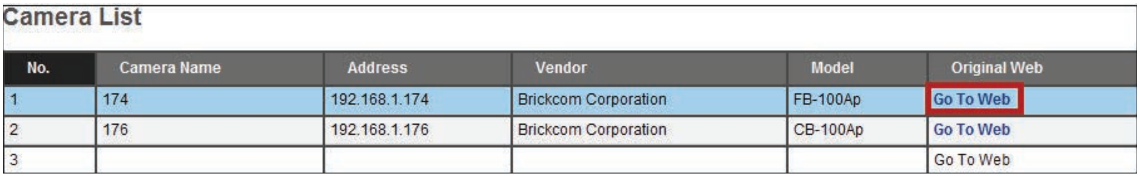
⚠ **Note**: The type of video format varies depending on the camera brand and models.

- **Frame Rate**

  Select the frame rate from the drop-down list. The frame rate of the IP camera will be influenced by the network environement.

- **Resolution**
  Select resolution from the drop-down list for your camera.
- **Video Quality**
  Select either "**VBR**" (Variable bit rate) or "**CBR**" (Constant bit rate) to set the video quality.
- **Audio Enable**
  To enable or disable the audio recording function.
- **Stream Target**
  Apply stream settings to different target; including **live view**, **record**, and **live view & Record**.

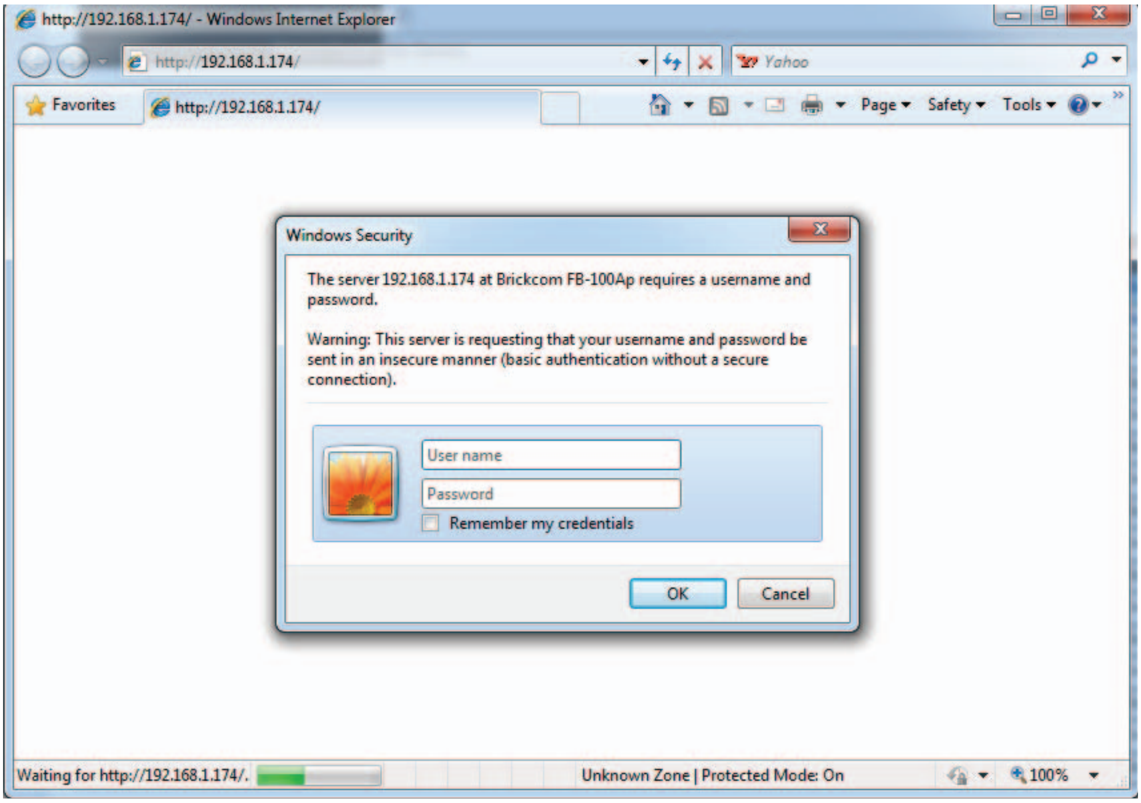
Furthermore, click "**Go to Web**" for advanced camera configuration in the camera's user interface.



Camera List

No.	Camera Name	Address	Vendor	Model	Original Web
1	174	192.168.1.174	Brickcom Corporation	FB-100Ap	Go To Web
2	176	192.168.1.176	Brickcom Corporation	CB-100Ap	Go To Web
3					Go To Web

At the same time, a window pops up to ask for the user name and password for the camera configuration.



http://192.168.1.174/ - Windows Internet Explorer
http://192.168.1.174/
Yahoo
Favorites
http://192.168.1.174/
Page
Safety
Tools
Windows Security

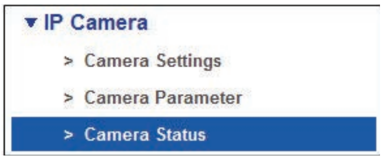
The server 192.168.1.174 at Brickcom FB-100Ap requires a username and password.

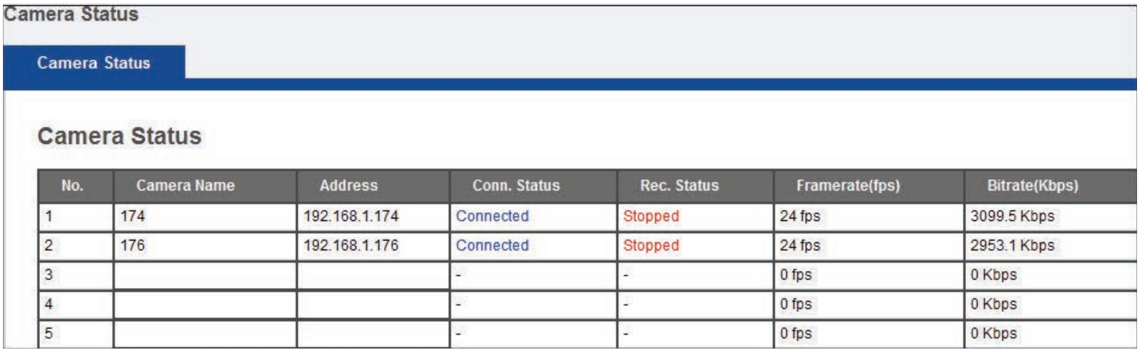
Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).

User name
Password
☐ Remember my credentials
OK
Cancel
Waiting for http://192.168.1.174/.
Unknown Zone | Protected Mode: On
100%

Camera Status

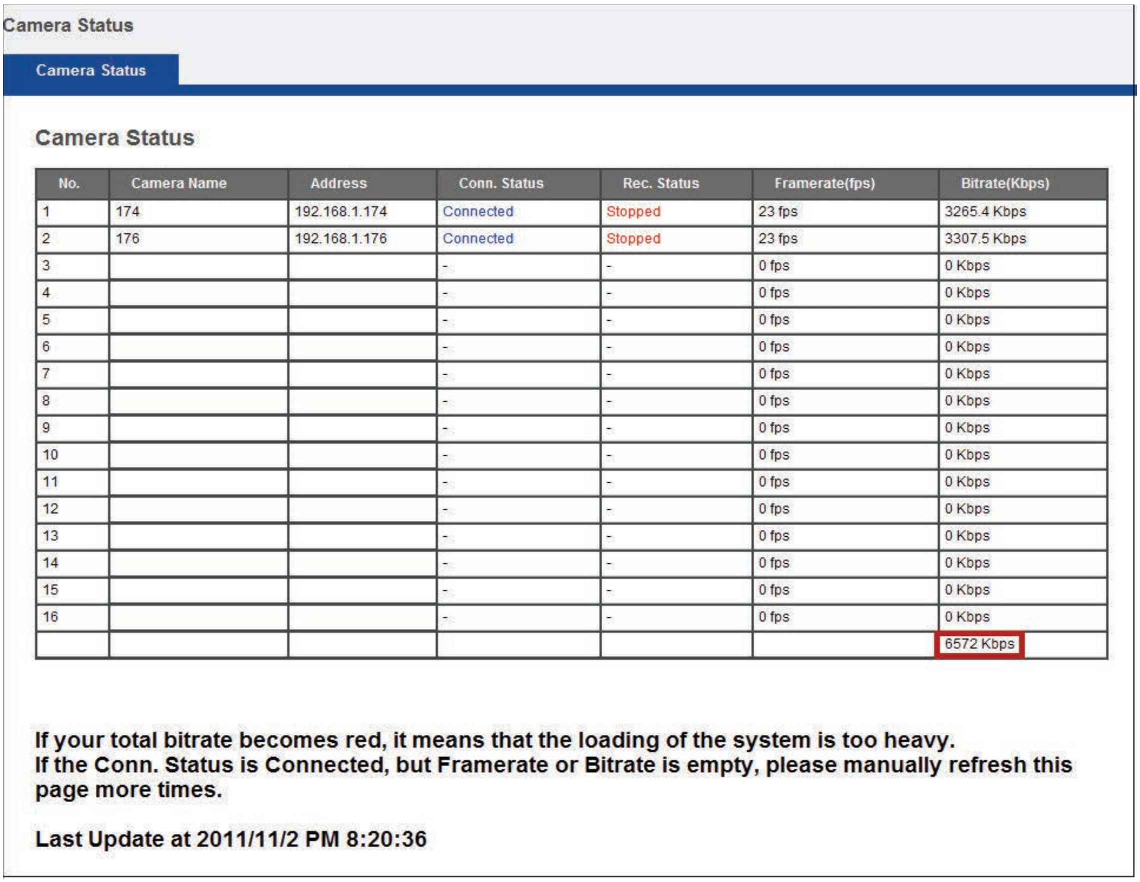
Select “**Camera Status**” from the drop-down menu of the **IP Camera** to begin.


▼ IP Camera
> Camera Settings
> Camera Parameter
> Camera Status


Camera Status
Camera Status
Camera Status

No.	Camera Name	Address	Conn. Status	Rec. Status	Framerate(fps)	Bitrate(Kbps)
1	174	192.168.1.174	Connected	Stopped	24 fps	3099.5 Kbps
2	176	192.168.1.176	Connected	Stopped	24 fps	2953.1 Kbps
3			-	-	0 fps	0 Kbps
4			-	-	0 fps	0 Kbps
5			-	-	0 fps	0 Kbps

Camera List shows connection status of recording.


Camera Status
Camera Status
Camera Status

No.	Camera Name	Address	Conn. Status	Rec. Status	Framerate(fps)	Bitrate(Kbps)
1	174	192.168.1.174	Connected	Stopped	23 fps	3265.4 Kbps
2	176	192.168.1.176	Connected	Stopped	23 fps	3307.5 Kbps
3			-	-	0 fps	0 Kbps
4			-	-	0 fps	0 Kbps
5			-	-	0 fps	0 Kbps
6			-	-	0 fps	0 Kbps
7			-	-	0 fps	0 Kbps
8			-	-	0 fps	0 Kbps
9			-	-	0 fps	0 Kbps
10			-	-	0 fps	0 Kbps
11			-	-	0 fps	0 Kbps
12			-	-	0 fps	0 Kbps
13			-	-	0 fps	0 Kbps
14			-	-	0 fps	0 Kbps
15			-	-	0 fps	0 Kbps
16			-	-	0 fps	0 Kbps
						6572 Kbps

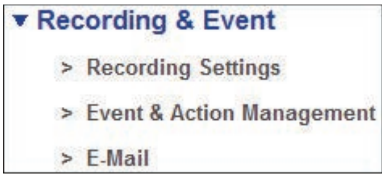
If your total bitrate becomes red, it means that the loading of the system is too heavy.
If the Conn. Status is Connected, but Framerate or Bitrate is empty, please manually refresh this page more times.

Last Update at 2011/11/2 PM 8:20:36

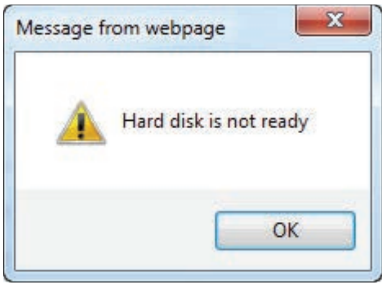
Please note the “**Bitrate**” in the loading status and avoid the total bitrate turning red as it’s overloading the server.

5.2 Recording & Events

Recording & Events provides different event modes and recording schedules to configure IP camera. Event & Action Management also allows the user to combine various events and the triggered actions.


▼ Recording & Event
> Recording Settings
> Event & Action Management
> E-Mail

If no hard disk is installed, the following window will pop up when you click "**Recording & Event**".



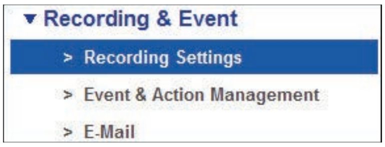
Message from webpage

Hard disk is not ready

After the hard disk is ready you can continue the setting.

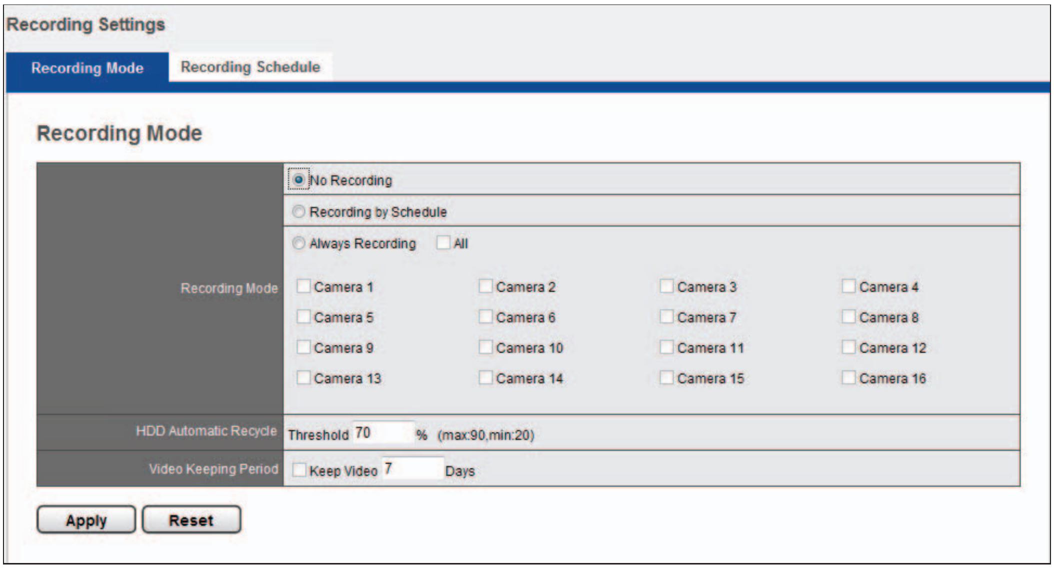
Recording Settings

Select "**Recording Settings**" from the **Recording & Event** drop-down menu to begin.


▼ Recording & Event
> Recording Settings
> Event & Action Management
> E-Mail

Recording Mode

You can set the mode to “**No Recording**,” “**Recording by Schedule**” and “**Always Recording**” for each of the connected cameras.



Recording Mode

Recording Mode	● No Recording
	○ Recording by Schedule
	○ Always Recording ☐ All
	☐ Camera 1 ☐ Camera 2 ☐ Camera 3 ☐ Camera 4 ☐ Camera 5 ☐ Camera 6 ☐ Camera 7 ☐ Camera 8 ☐ Camera 9 ☐ Camera 10 ☐ Camera 11 ☐ Camera 12 ☐ Camera 13 ☐ Camera 14 ☐ Camera 15 ☐ Camera 16
HDD Automatic Recycle	Threshold 70 % (max:90,min:20)
Video Keeping Period	☐ Keep Video 7 Days

- **No Recording**: If “**No Recording**” is selected all cameras will be disabled from recording video.
- **Recording by Schedule**: If “**Recording by Schedule**” is selected, you can set the scheduled time to record video. Users should configure the schedule in the “**Recording Schedule**” section.

Recording Settings
Recording Mode
Recording Schedule

- **Always Recording**: You can select the cameras, or click “**All**” cameras, to apply the “**Always Recording**” function. Video will be recorded continuously.

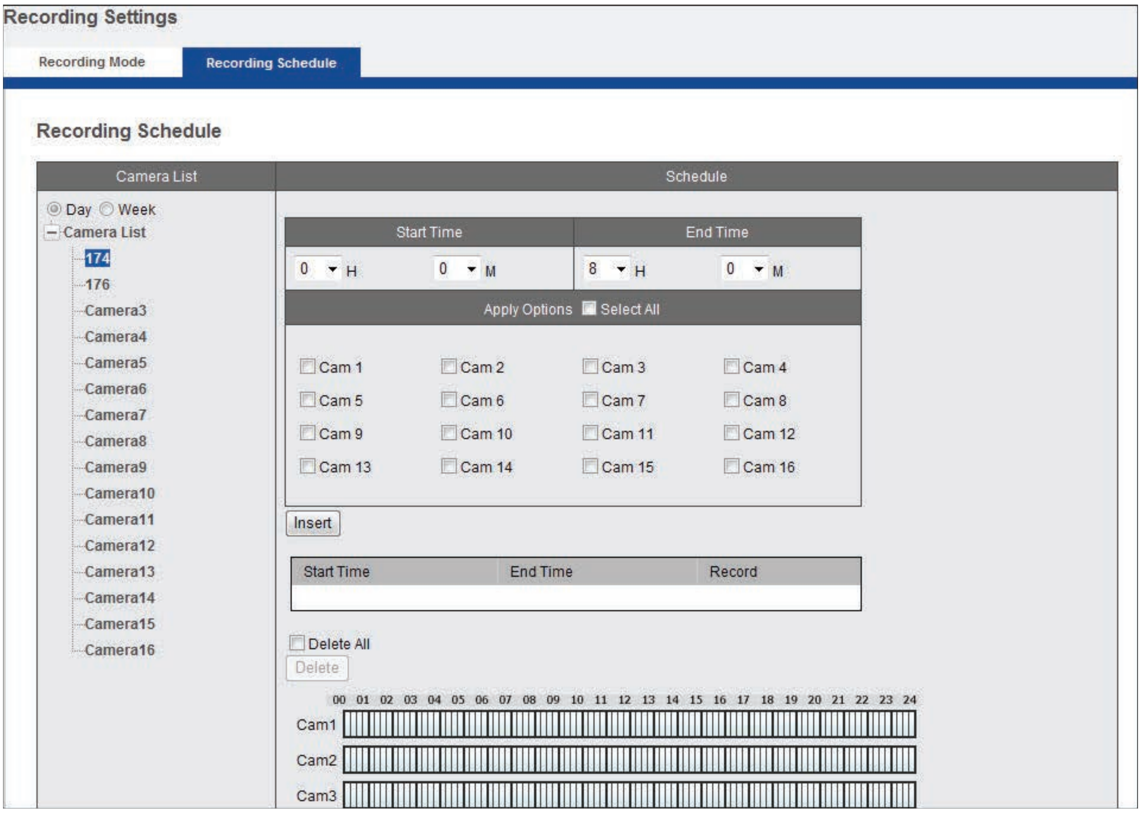
The NVRPRO provides two ways to delete the recorded video.

- **HDD Automatic Recycle**: You can set recording percentage for keeping videos and to overwrite the oldest video files automatically. The maximum threshold is 90% while the minimum is 20%. For example, if the threshold is set to 70%, and the HDD storage reaches 70%, the server automatically deletes the oldest recorded video.
- **Video Keeping Period**: You can set a period for keeping videos. For example, if 7 days is set and the HDD storage has been kept for 7 days, the NVRPRO automatically deletes the earliest day’s recorded video.

Click “**Apply**” to apply setting or click “**Reset**” to change the setting.

Recording Schedule

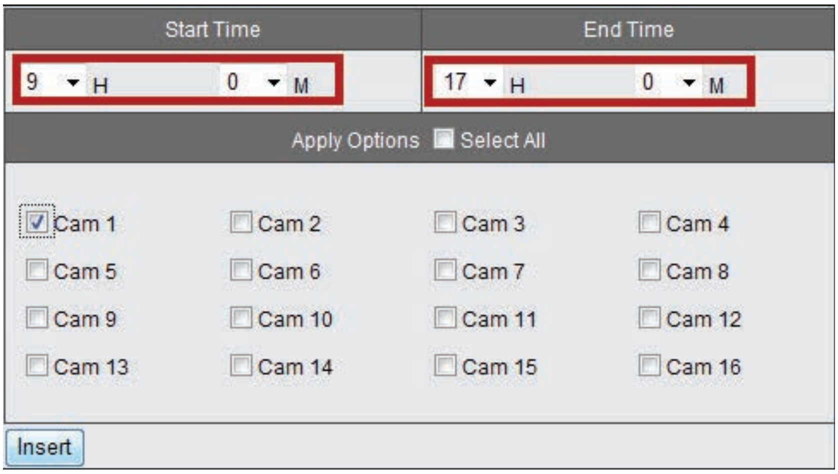
You can configure the Recording Schedule to define the time range for all channels.


Recording Settings
Recording Mode
Recording Schedule
Recording Schedule
Camera List
Schedule
○ Day ○ Week
Camera List
174
176
Camera3
Camera4
Camera5
Camera6
Camera7
Camera8
Camera9
Camera10
Camera11
Camera12
Camera13
Camera14
Camera15
Camera16
Start Time
End Time
Apply Options
☐ Select All
Insert
Start Time
End Time
Record
☐ Delete All
Delete
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Cam1
Cam2
Cam3

Start Time: 0 H 0 M
End Time: 8 H 0 M

☐ Cam 1 ☐ Cam 2 ☐ Cam 3 ☐ Cam 4
☐ Cam 5 ☐ Cam 6 ☐ Cam 7 ☐ Cam 8
☐ Cam 9 ☐ Cam 10 ☐ Cam 11 ☐ Cam 12
☐ Cam 13 ☐ Cam 14 ☐ Cam 15 ☐ Cam 16

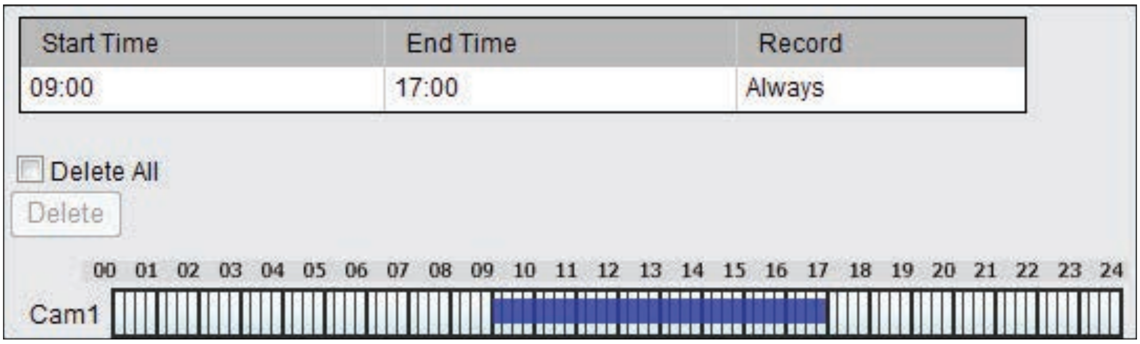
Select the time range and channel for the recording schedule and click "**Insert**."


Start Time
End Time
Apply Options
☐ Select All
Insert

Start Time: 9 H 0 M
End Time: 17 H 0 M

☑ Cam 1 ☐ Cam 2 ☐ Cam 3 ☐ Cam 4
☐ Cam 5 ☐ Cam 6 ☐ Cam 7 ☐ Cam 8
☐ Cam 9 ☐ Cam 10 ☐ Cam 11 ☐ Cam 12
☐ Cam 13 ☐ Cam 14 ☐ Cam 15 ☐ Cam 16

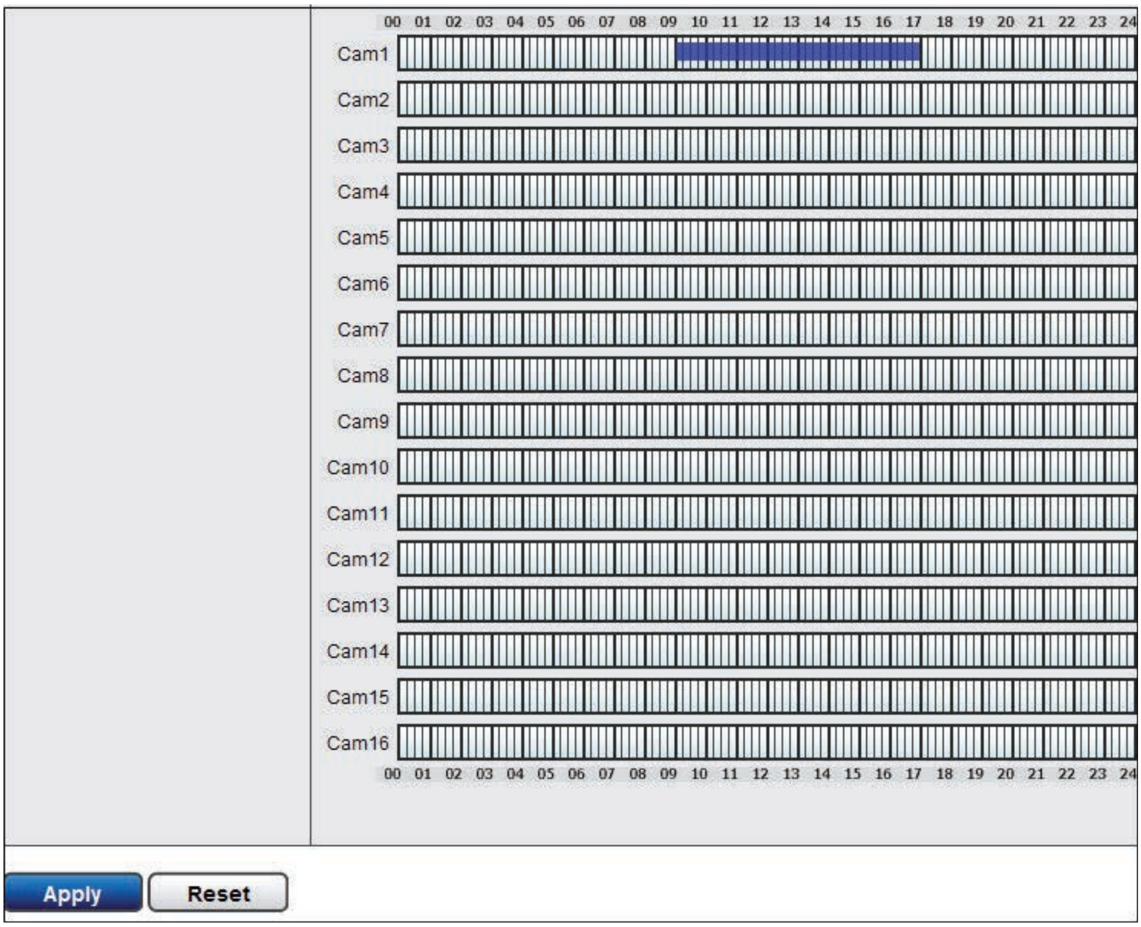
After inserting the time range and channel, the time/camera bar displays the selected time.



Start Time	End Time	Record
09:00	17:00	Always

☐ Delete All

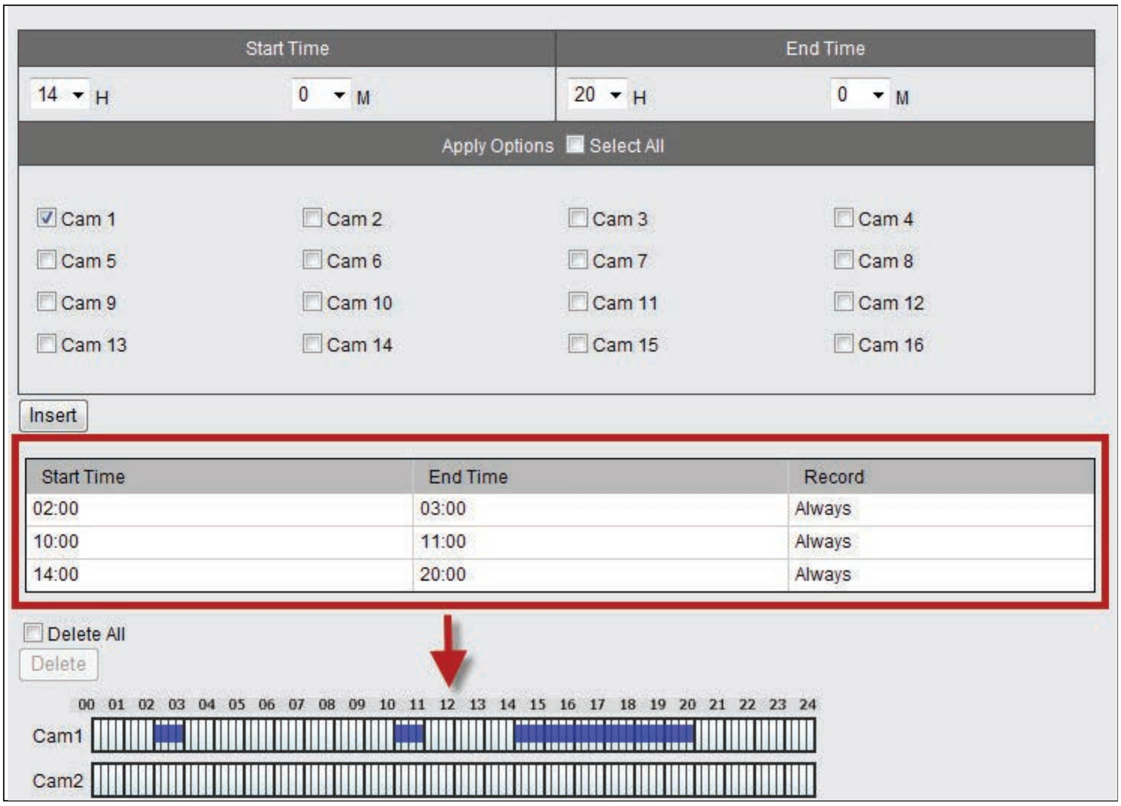
Delete
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Cam1



00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Cam1
Cam2
Cam3
Cam4
Cam5
Cam6
Cam7
Cam8
Cam9
Cam10
Cam11
Cam12
Cam13
Cam14
Cam15
Cam16
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Apply
Reset

Click “**Apply**” to finish setting or “**Reset**” to rearrange the time and camera channel.

⚠ **Note**: A camera can be set to multiple simultaneous recording schedules.



Start Time		End Time	
14 H	0 M	20 H	0 M

Apply Options ☐ Select All

☑ Cam 1 ☐ Cam 2 ☐ Cam 3 ☐ Cam 4
☐ Cam 5 ☐ Cam 6 ☐ Cam 7 ☐ Cam 8
☐ Cam 9 ☐ Cam 10 ☐ Cam 11 ☐ Cam 12
☐ Cam 13 ☐ Cam 14 ☐ Cam 15 ☐ Cam 16

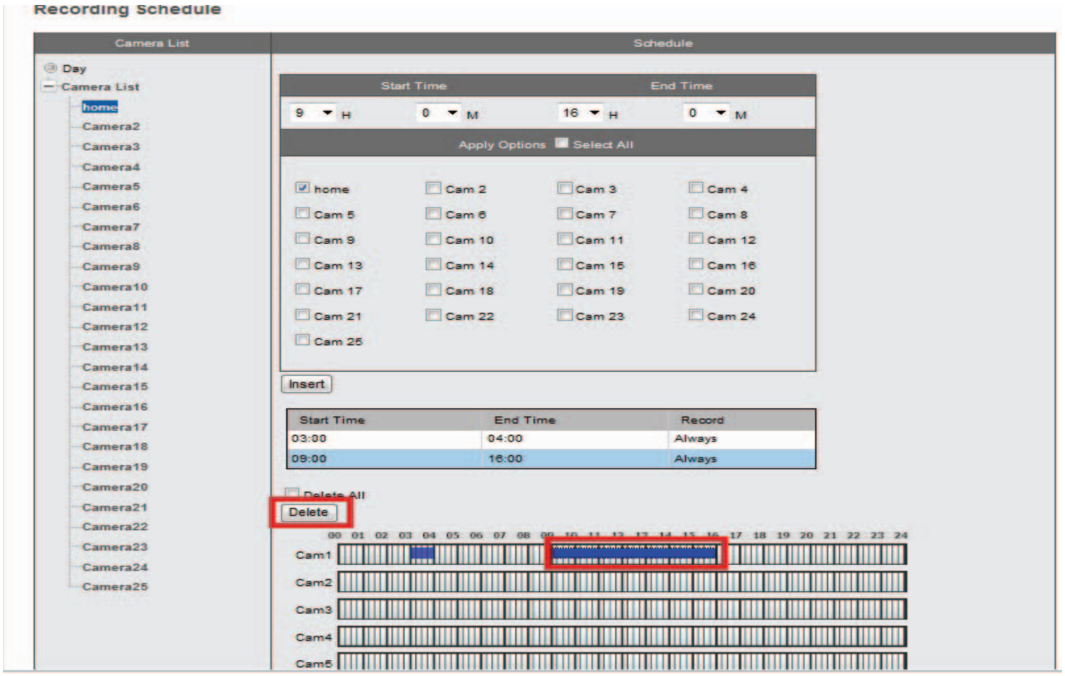
Start Time	End Time	Record
02:00	03:00	Always
10:00	11:00	Always
14:00	20:00	Always

☐ Delete All

Insert
Delete
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Cam1
Cam2

Delete

You can erase a specific time in the recording schedule by selecting the time and then click **Delete.**



Recording Schedule

Camera List
Schedule
Day
Camera List
home
Camera2
Camera3
Camera4
Camera5
Camera6
Camera7
Camera8
Camera9
Camera10
Camera11
Camera12
Camera13
Camera14
Camera15
Camera16
Camera17
Camera18
Camera19
Camera20
Camera21
Camera22
Camera23
Camera24
Camera25

Start Time		End Time	
9 H	0 M	16 H	0 M

Apply Options ☐ Select All

☑ home ☐ Cam 2 ☐ Cam 3 ☐ Cam 4
☐ Cam 5 ☐ Cam 6 ☐ Cam 7 ☐ Cam 8
☐ Cam 9 ☐ Cam 10 ☐ Cam 11 ☐ Cam 12
☐ Cam 13 ☐ Cam 14 ☐ Cam 15 ☐ Cam 16
☐ Cam 17 ☐ Cam 18 ☐ Cam 19 ☐ Cam 20
☐ Cam 21 ☐ Cam 22 ☐ Cam 23 ☐ Cam 24
☐ Cam 25

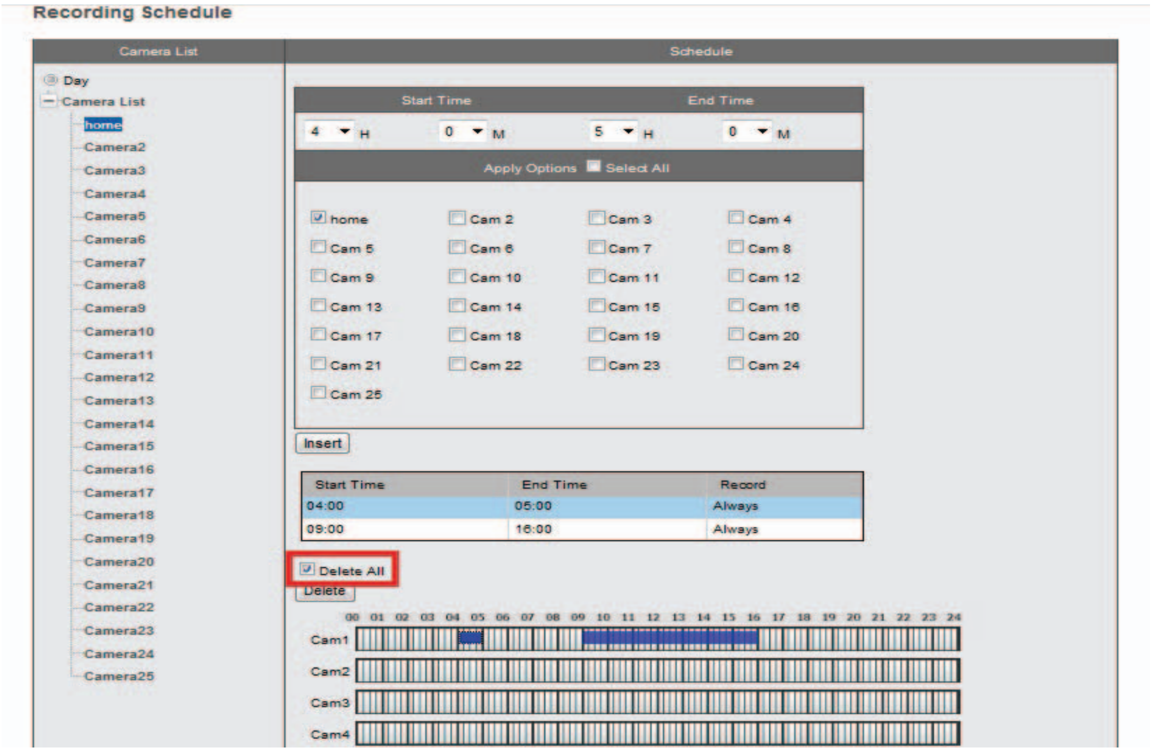
Start Time	End Time	Record
03:00	04:00	Always
09:00	16:00	Always

☐ Delete All

Insert
Delete
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Cam1
Cam2
Cam3
Cam4
Cam5

Delete All

By checking **Delete All,** and then selecting the camera, you can remove the whole recording schedule for the camera by clicking **Delete.**



Recording Schedule

Start Time: 4 H 0 M

End Time: 5 H 0 M

Apply Options ☐ Select All

☑ home

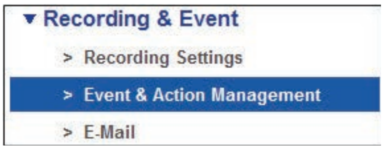
Start Time	End Time	Record
04:00	05:00	Always
09:00	16:00	Always

☑ Delete All

Camera List
Schedule
Day
Camera List
home
Camera2
Camera3
Camera4
Camera5
Camera6
Camera7
Camera8
Camera9
Camera10
Camera11
Camera12
Camera13
Camera14
Camera15
Camera16
Camera17
Camera18
Camera19
Camera20
Camera21
Camera22
Camera23
Camera24
Camera25
Cam 2
Cam 3
Cam 4
Cam 5
Cam 6
Cam 7
Cam 8
Cam 9
Cam 10
Cam 11
Cam 12
Cam 13
Cam 14
Cam 15
Cam 16
Cam 17
Cam 18
Cam 19
Cam 20
Cam 21
Cam 22
Cam 23
Cam 24
Cam 25
Insert
Delete
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Cam1
Cam2
Cam3
Cam4

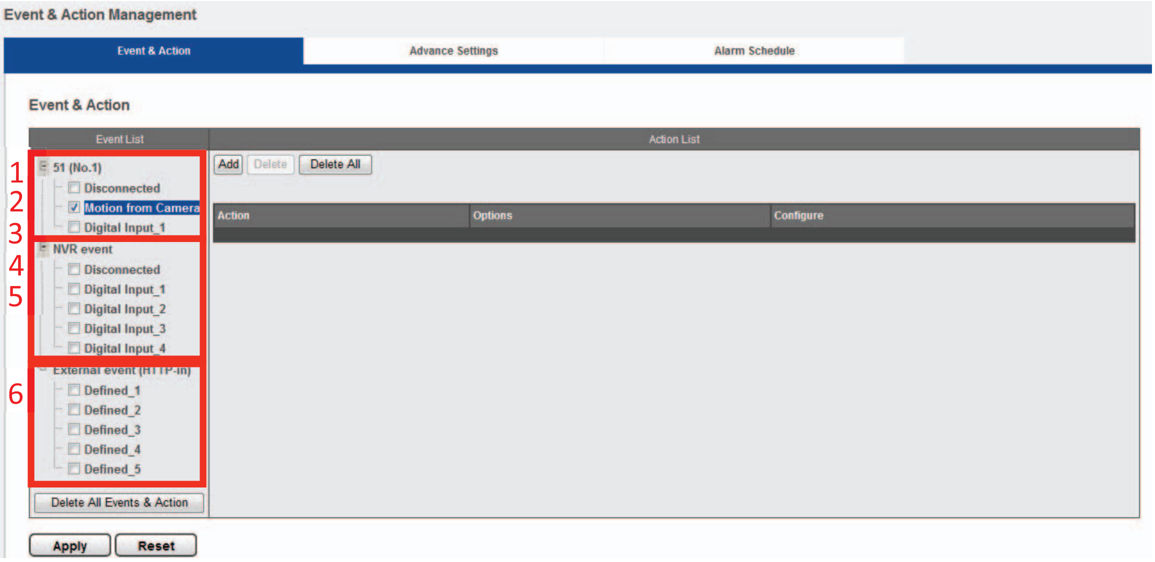
Event & Action Management

Select “**Event & Action Management**” from the **Recording & Event** drop-down menu to begin.


Recording & Event
> Recording Settings
> Event & Action Management
> E-Mail

“**Event & Action Management**” allows you to define alarm settings that manage events and the corresponding trigger action. When an event occurs, NVRPRO performs certain actions. This setting can strengthen security levels during monitoring and recording and notify users when necessary.

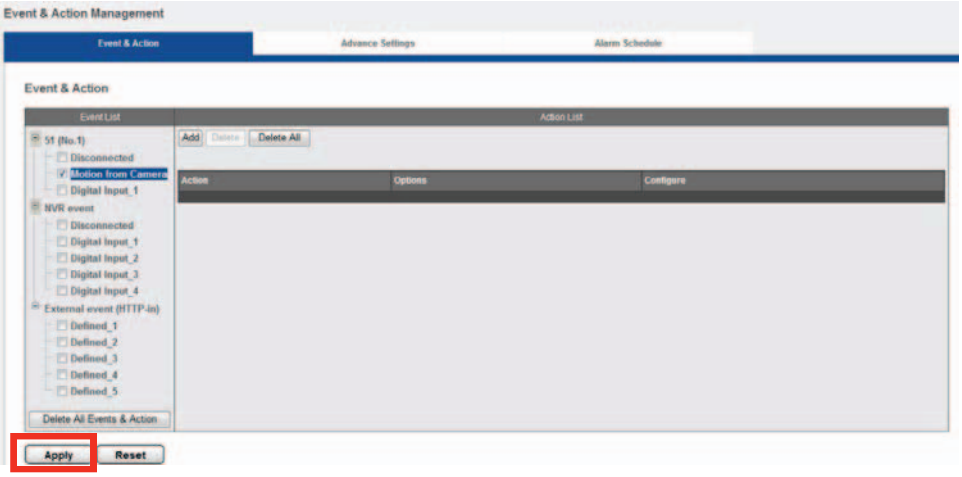
Event & Action


Event & Action Management
Event & Action
Advance Settings
Alarm Schedule
Event & Action
Event List
Action List
1
2
3
4
5
6
51 (No.1)
☐ Disconnected
☑ Motion from Camera
☐ Digital Input_1
NVR event
☐ Disconnected
☐ Digital Input_1
☐ Digital Input_2
☐ Digital Input_3
☐ Digital Input_4
External event (HTTP-in)
☐ Defined_1
☐ Defined_2
☐ Defined_3
☐ Defined_4
☐ Defined_5
Add
Delete
Delete All
Action
Options
Configure
Delete All Events & Action
Apply
Reset

The NVRPRO supports different actions which can be activated when the selected events are triggered in the IP cameras. You can configure three types of event for the camera and the NVRPRO also provides three types of event for NVRPRO system.

1. Disconnected
2. Motion from Camera
3. Digital Input
4. NVR event: Disconnected
5. NVR event: Digital Input
6. External event (HTTP-in)

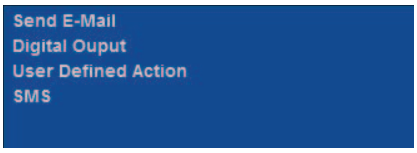
An event type is a set of parameters that defines different actions.
Check the event type and click “**Add**” to select NVR Action.


Event & Action Management
Event & Action
Advance Settings
Alarm Schedule
Event & Action
Event List
Action List
Add
Delete
Delete All
51 (No.1)
☐ Disconnected
☑ Motion from Camera
☐ Digital Input_1
NVR event
☐ Disconnected
☐ Digital Input_1
☐ Digital Input_2
☐ Digital Input_3
☐ Digital Input_4
External event (HTTP-in)
☐ Defined_1
☐ Defined_2
☐ Defined_3
☐ Defined_4
☐ Defined_5
Action
Options
Configure
Delete All Events & Action
Apply
Reset

⚠**Note**: The action is only triggered when it is added to the event.

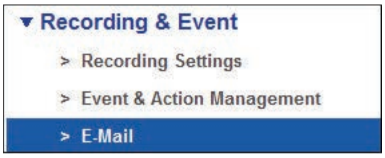
1. **Disconnected**

You can set an action, such as “**Send E-Mail**”, “**Digital Output**”, “**User Defined Action**” and “**SMS**”. If connection is lost the camera actions can be triggered.


Send E-Mail
Digital Ouput
User Defined Action
SMS

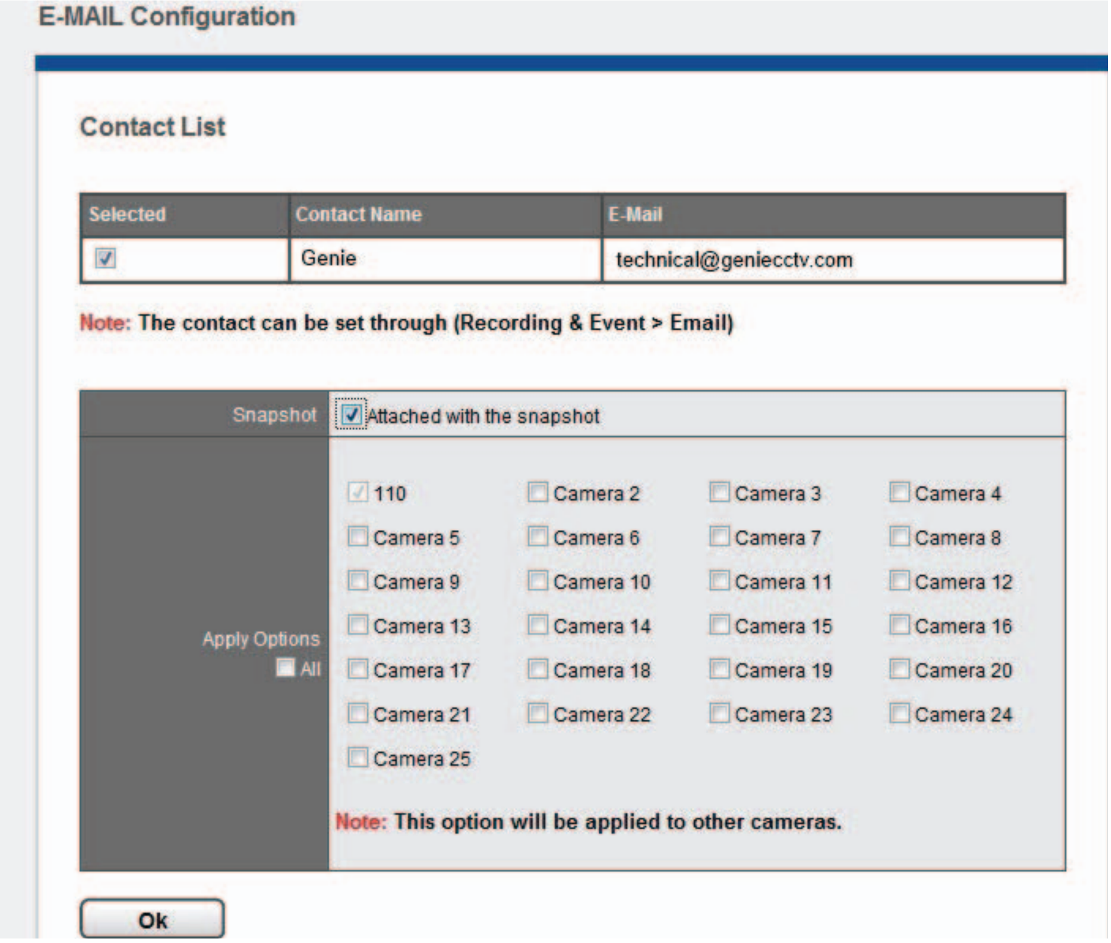
- **Send E-Mail**

  E-Mail Configuration window pops up if you add “**Send E-Mail**” to the action, but there will be no contact information listed in the configuration at first. Go to add a new contact in the following section “**E-Mail**.”


Recording & Event
> Recording Settings
> Event & Action Management
> E-Mail

  After the contact is added, **Contact List** shows the name and E-Mail address information. Select the **Contact List** and **Apply Options** for cameras. Then click “**Ok**” to finish E-MAIL Configuration.

  If “**Attached with the snapshot**” is enabled, the Email is sent along with a snapshot of the event.



Contact List

Selected	Contact Name	E-Mail
☑	Genie	technical@geniecctv.com

Note: The contact can be set through (Recording & Event > Email)

Snapshot ☑ Attached with the snapshot

Apply Options ☐ All

☑ 110 ☐ Camera 2 ☐ Camera 3 ☐ Camera 4
☐ Camera 5 ☐ Camera 6 ☐ Camera 7 ☐ Camera 8
☐ Camera 9 ☐ Camera 10 ☐ Camera 11 ☐ Camera 12
☐ Camera 13 ☐ Camera 14 ☐ Camera 15 ☐ Camera 16
☐ Camera 17 ☐ Camera 18 ☐ Camera 19 ☐ Camera 20
☐ Camera 21 ☐ Camera 22 ☐ Camera 23 ☐ Camera 24
☐ Camera 25

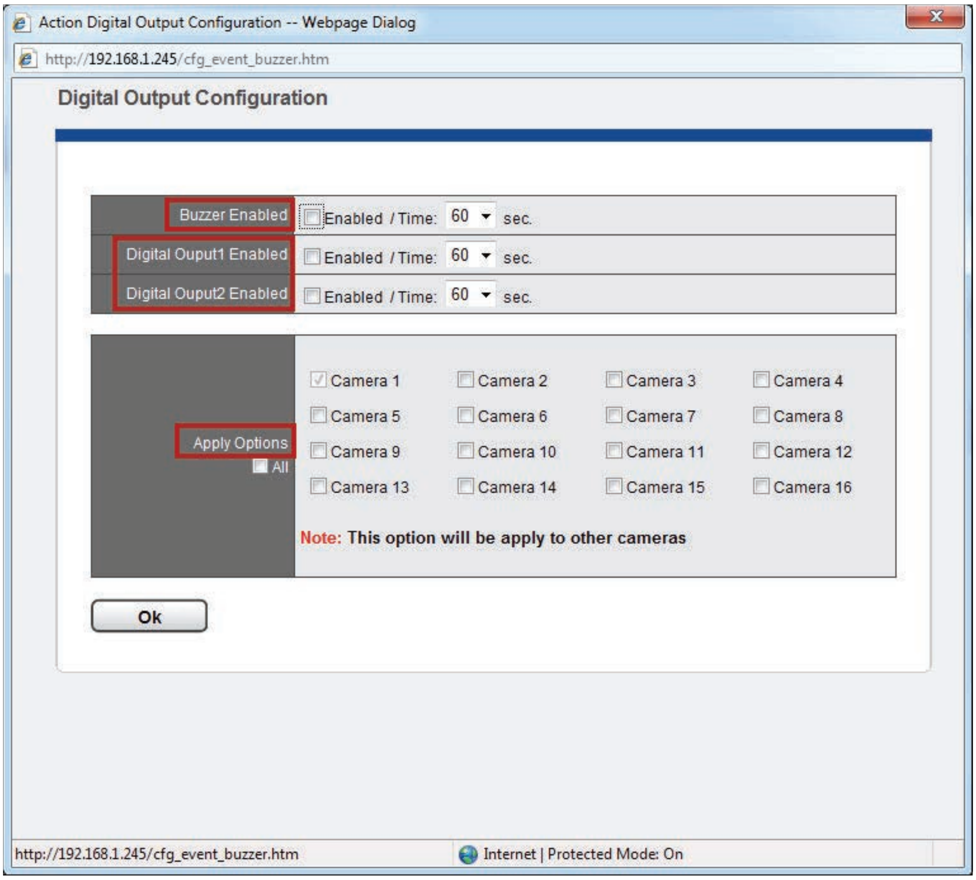
Note: This option will be applied to other cameras.

Click “**Apply**” to finish the configuration.
E-Mail action is triggered once every 20 seconds as the event is happening, which means if an event is lasting for one minute the NVRPRO sends email 3 times per every 20 seconds.

- **Digital Output**
  Digital Output Configuration window will pop up if you add “**Digital Output**” to action.

  The **Buzzer** can be enabled to sound for up to 60 seconds.
  ⚠ **Note**: Press and hold the “**USB BACKUP**” button on the NVRPRO front panel for one second to stop the buzzer beeping.

  Digital Output1 and **Digital Output2** are supported by other digital outputs of the server and can be enabled for up to 60 seconds.
  Select **Apply Options** for cameras to finish the configuration.


Action Digital Output Configuration -- Webpage Dialog
http://192.168.1.245/cfg_event_buzzer.htm

Digital Output Configuration

Buzzer Enabled	☐ Enabled / Time: 60 sec.
Digital Ouput1 Enabled	☐ Enabled / Time: 60 sec.
Digital Ouput2 Enabled	☐ Enabled / Time: 60 sec.

Apply Options ☐ All

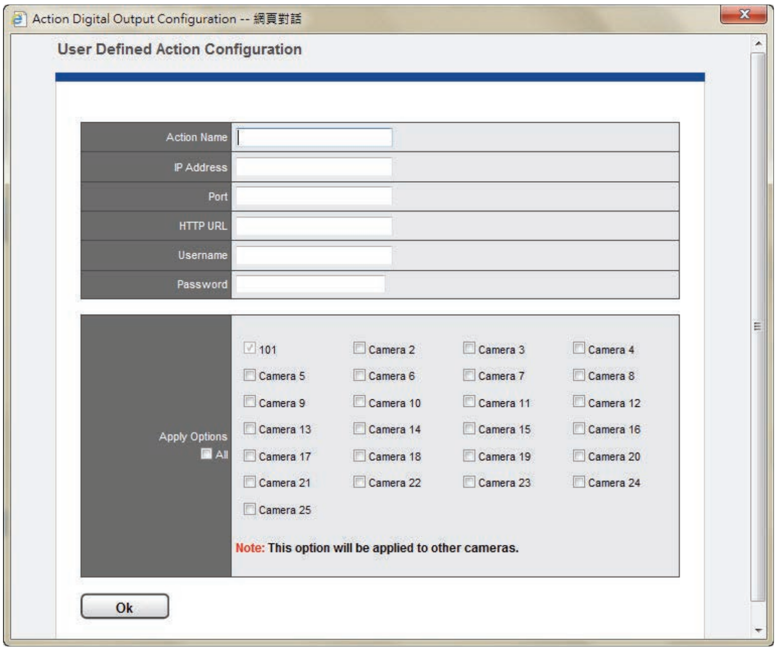
☑ Camera 1	☐ Camera 2	☐ Camera 3	☐ Camera 4
☐ Camera 5	☐ Camera 6	☐ Camera 7	☐ Camera 8
☐ Camera 9	☐ Camera 10	☐ Camera 11	☐ Camera 12
☐ Camera 13	☐ Camera 14	☐ Camera 15	☐ Camera 16

Note: This option will be apply to other cameras

Ok
http://192.168.1.245/cfg_event_buzzer.htm
Internet | Protected Mode: On

- **User Defined Action**

  User Defined Action allows you to send a specific HTTP command out when an event is triggered. It can be sent for managing devices such as power controller, fire/smoke protection device etc.


Action Digital Output Configuration -- 網頁對話

User Defined Action Configuration

Action Name	
IP Address	
Port	
HTTP URL	
Username	
Password	

Apply Options ☐ All

☑ 101	☐ Camera 2	☐ Camera 3	☐ Camera 4
☐ Camera 5	☐ Camera 6	☐ Camera 7	☐ Camera 8
☐ Camera 9	☐ Camera 10	☐ Camera 11	☐ Camera 12
☐ Camera 13	☐ Camera 14	☐ Camera 15	☐ Camera 16
☐ Camera 17	☐ Camera 18	☐ Camera 19	☐ Camera 20
☐ Camera 21	☐ Camera 22	☐ Camera 23	☐ Camera 24
☐ Camera 25			

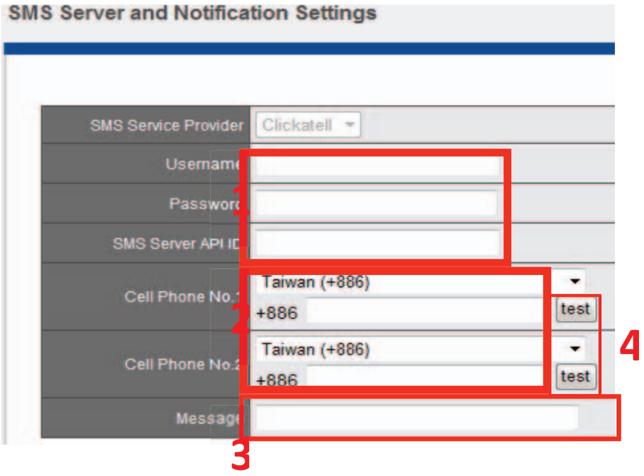
Note: This option will be applied to other cameras.

- **SMS**

  SMS stands for Short Message Service. Users can be notified by a short message service when the event is triggered. The service is supported by Clickatell and users need to register for the service. It only currently supports English messages.

  Settings:

  1. Fill out the correct username, password and API ID for the SMS server.
  2. Select the country and input the cell phone number.
  3. Add the message for sending out to the cell phone.
  4. Users can test if the account information and cell phone are correct before applying.
  5. Click “OK” to complete the parameters settings.



SMS Server and Notification Settings

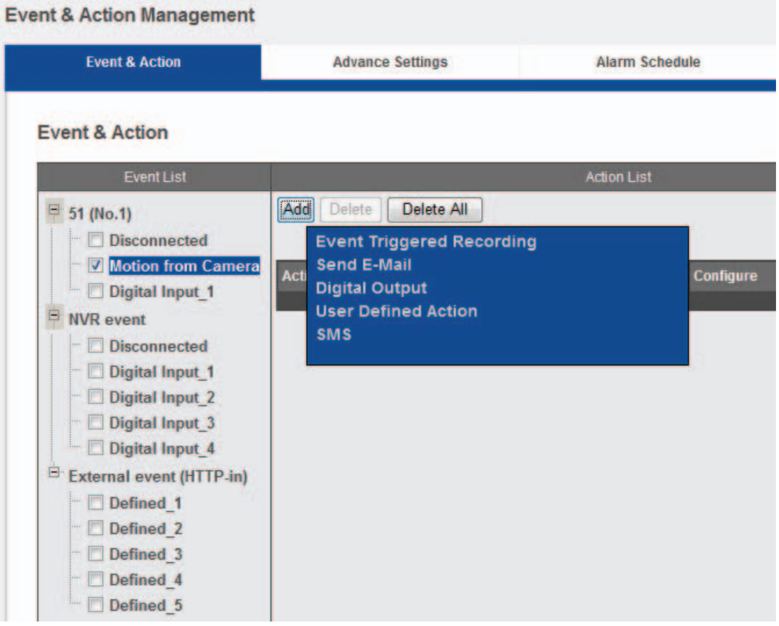
SMS Service Provider: Clickatell

Cell Phone No.1: Taiwan (+886) +886

Cell Phone No.2: Taiwan (+886) +886

2. Motion from Camera

You can set actions, such as “**Event Trigger Record,” “Send E-Mail”, “Digital Output”, “User Defined Action” and “SMS”** if motion from the camera is detected. Three actions can be triggered.


Event & Action Management
Event & Action
Advance Settings
Alarm Schedule
Event & Action
Event List
Action List
Add
Delete
Delete All
Acti
Configure

51 (No.1)
- ☐ Disconnected
- ☑ Motion from Camera
- ☐ Digital Input_1

NVR event
- ☐ Disconnected
- ☐ Digital Input_1
- ☐ Digital Input_2
- ☐ Digital Input_3
- ☐ Digital Input_4

External event (HTTP-in)
- ☐ Defined_1
- ☐ Defined_2
- ☐ Defined_3
- ☐ Defined_4
- ☐ Defined_5

Event Triggered Recording
Send E-Mail
Digital Output
User Defined Action
SMS

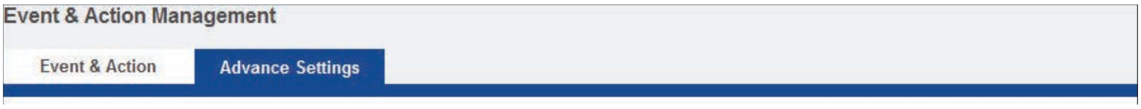
- **Event Triggered Recording**

Event Triggered Recording

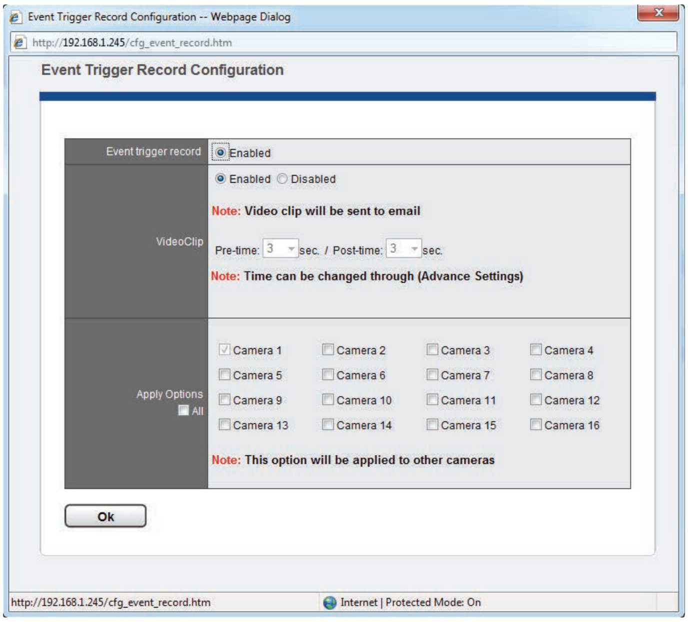
You can enable **Event trigger recording** and **Video Clip**.

Event triggered recording: When an event is triggered the NVRPRO records video in five minute blocks if the event continues happening.

Video Clip: Video clip will be sent by E-mail, and you can change the Pre and Post time in "**Advanced Settings**."


Event & Action Management
Event & Action
Advance Settings

Select cameras in Apply Options field to finish the configuration.


Event Trigger Record Configuration -- Webpage Dialog
http://192.168.1.245/cfg_event_record.htm
Event Trigger Record Configuration
Ok
Internet | Protected Mode: On

Event trigger record: ● Enabled

VideoClip: ● Enabled ○ Disabled

Note: Video clip will be sent to email

Pre-time: 3 sec. / Post-time: 3 sec.

Note: Time can be changed through (Advance Settings)

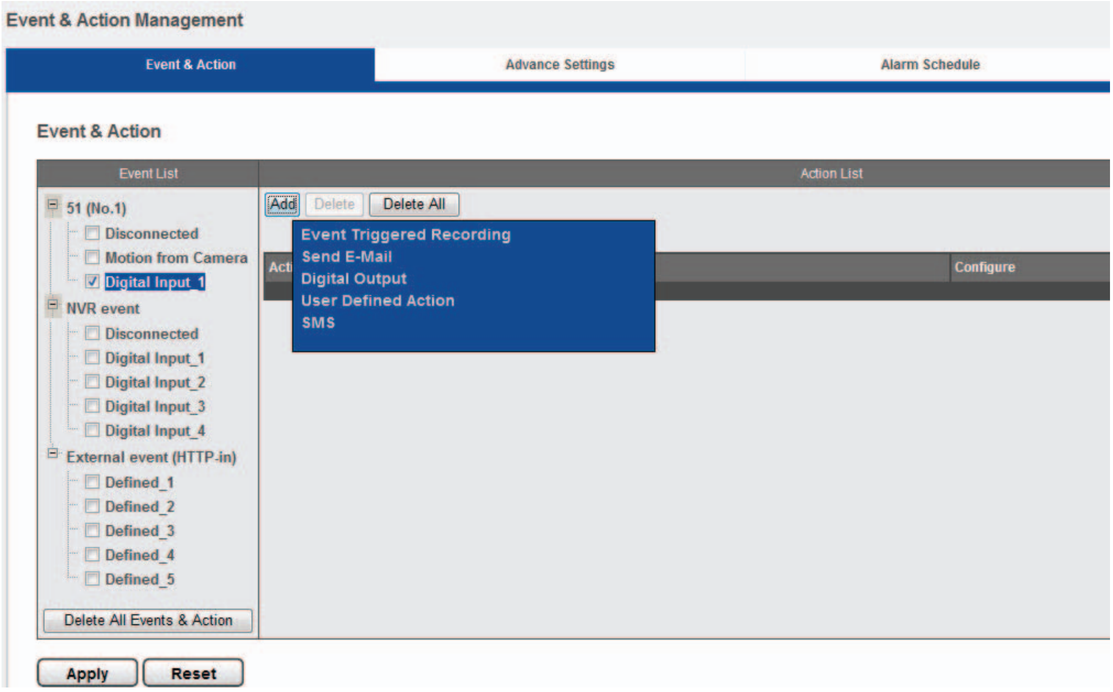
Apply Options ☐ All

☑ Camera 1	☐ Camera 2	☐ Camera 3	☐ Camera 4
☐ Camera 5	☐ Camera 6	☐ Camera 7	☐ Camera 8
☐ Camera 9	☐ Camera 10	☐ Camera 11	☐ Camera 12
☐ Camera 13	☐ Camera 14	☐ Camera 15	☐ Camera 16

Note: This option will be applied to other cameras

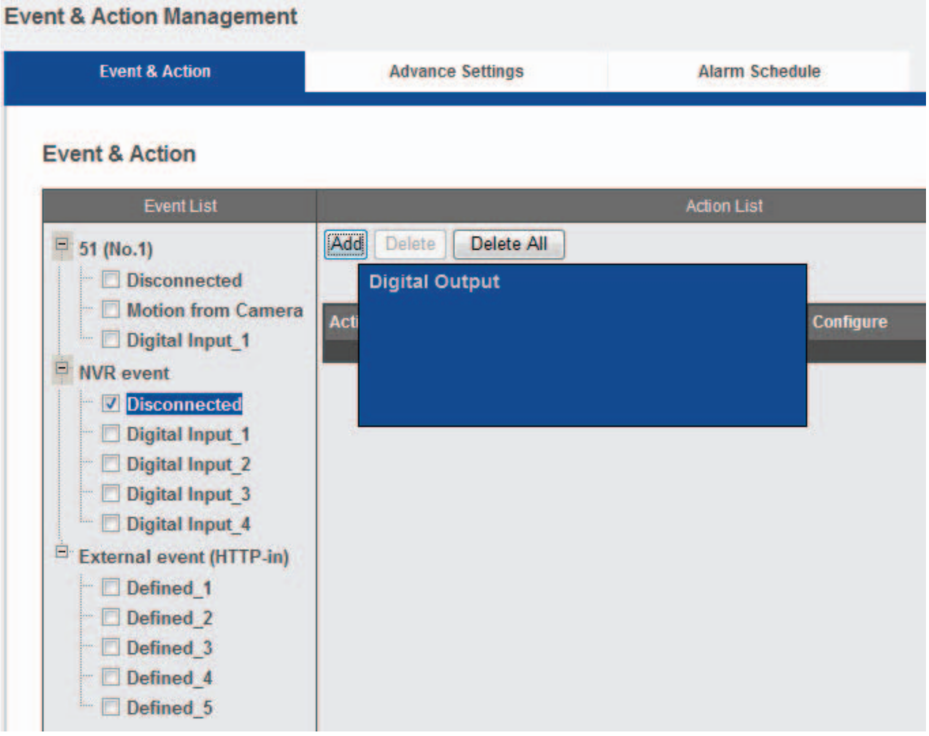
3. Digital Input

You can set actions as “**Event Trigger Record**,” “**Send E-Mail**” and “**Digital Output**”, **“User Defined Action” and ”SMS”.** If Digital Input is detected from the camera, three actions can be triggered.


Event & Action Management
Event & Action
Advance Settings
Alarm Schedule
Event & Action
Event List
Action List
51 (No.1)
☐ Disconnected
☐ Motion from Camera
☑ Digital Input_1
NVR event
☐ Disconnected
☐ Digital Input_1
☐ Digital Input_2
☐ Digital Input_3
☐ Digital Input_4
External event (HTTP-in)
☐ Defined_1
☐ Defined_2
☐ Defined_3
☐ Defined_4
☐ Defined_5
Delete All Events & Action
Add
Delete
Delete All
Event Triggered Recording
Send E-Mail
Digital Output
User Defined Action
SMS
Acti
Configure
Apply
Reset

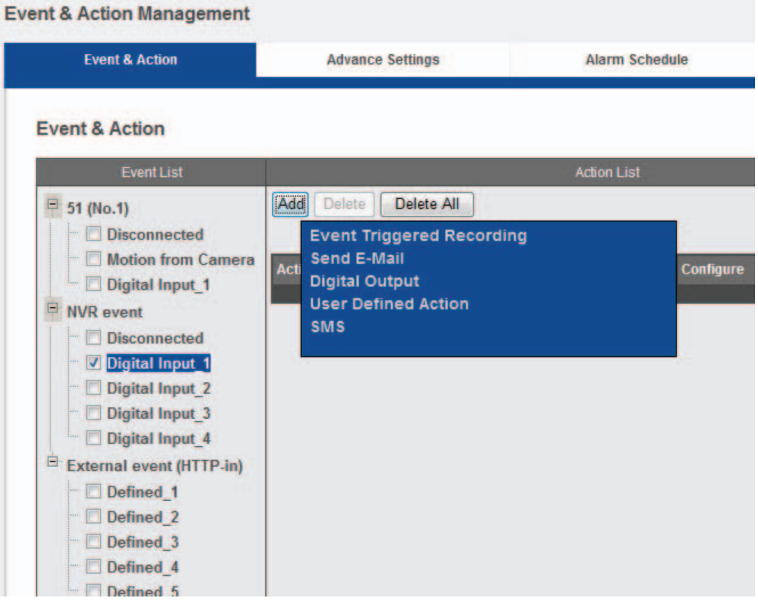
4. NVR event: Disconnected

You can set action as “**Digital Output**” if the connection to the system is lost.


Event & Action Management
Event & Action
Advance Settings
Alarm Schedule
Event & Action
Event List
Action List
51 (No.1)
☐ Disconnected
☐ Motion from Camera
☐ Digital Input_1
NVR event
☑ Disconnected
☐ Digital Input_1
☐ Digital Input_2
☐ Digital Input_3
☐ Digital Input_4
External event (HTTP-in)
☐ Defined_1
☐ Defined_2
☐ Defined_3
☐ Defined_4
☐ Defined_5
Add
Delete
Delete All
Digital Output
Acti
Configure

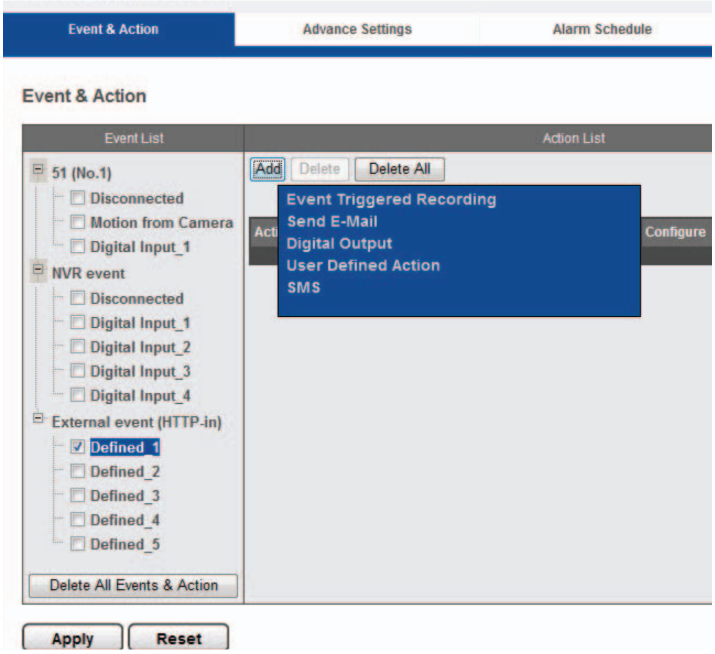
5. NVR event: Digital Input

You can set actions, such as “**Event Trigger Record**,” “**Send E-Mail**” and “**Digital Output**”, **“User Defined Action” and ”SMS**” if Digital Input is detected from the camera. Three actions can be triggered.


Event & Action Management
Event & Action
Advance Settings
Alarm Schedule
Event & Action
Event List
Action List
Add
Delete
Delete All
51 (No.1)
☐ Disconnected
☐ Motion from Camera
☐ Digital Input_1
NVR event
☐ Disconnected
☑ Digital Input_1
☐ Digital Input_2
☐ Digital Input_3
☐ Digital Input_4
External event (HTTP-in)
☐ Defined_1
☐ Defined_2
☐ Defined_3
☐ Defined_4
☐ Defined_5
Event Triggered Recording
Send E-Mail
Digital Output
User Defined Action
SMS
Acti
Configure

6. External event (HTTP-in)

You can set actions, such as “**Event Trigger Record**,” “**Send E-Mail**” and “**Digital Output**”, **“User Defined Action” and ”SMS”** if Digital Input is detected from the camera. Three actions can be triggered.


Event & Action
Advance Settings
Alarm Schedule
Event & Action
Event List
Action List
Add
Delete
Delete All
51 (No.1)
☐ Disconnected
☐ Motion from Camera
☐ Digital Input_1
NVR event
☐ Disconnected
☐ Digital Input_1
☐ Digital Input_2
☐ Digital Input_3
☐ Digital Input_4
External event (HTTP-in)
☑ Defined_1
☐ Defined_2
☐ Defined_3
☐ Defined_4
☐ Defined_5
Delete All Events & Action
Event Triggered Recording
Send E-Mail
Digital Output
User Defined Action
SMS
Acti
Configure
Apply
Reset

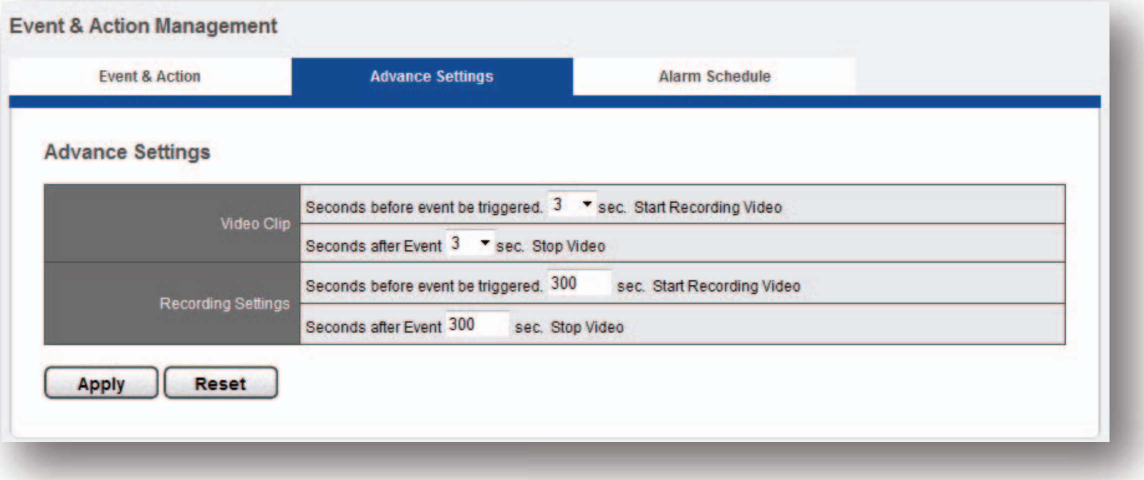
Event can be triggered by an external HTTP-in CGI command. It allows users to define up to 5 different HTTP-in events. With the “External Event”, users can set its actions just like other events.

The format of external HTTP-in event CGI :
http://<NVR_IP>/login.cgi/cgi_main.cgi?cgiName=event_ipc.cgi&eventName=Defined_<int>
- <NVR_IP> is the IP address of the NVRPRO that the command needs to be delivered to.
- <int> is defined for what number (1~5) of external HTTP-in event needs to be triggered.

For example :
http://192.168.1.245/login.cgi/cgi_main.cgi?cgiName=event_ipc.cgi&eventName=Defined_3
- The CGI is for sending to the NVRPRO with IP address 192.168.1.245 and trigger the external event #3

Finally, please click “**Apply**” to execute all settings.

Advanced Setting


Event & Action Management

Event & Action
Advance Settings
Alarm Schedule

Advance Settings

Video Clip	Seconds before event be triggered. 3 sec. Start Recording Video
	Seconds after Event 3 sec. Stop Video
Recording Settings	Seconds before event be triggered. 300 sec. Start Recording Video
	Seconds after Event 300 sec. Stop Video

Apply
Reset

You can set the Pre and Post time recording for the video clip and event recording.
Pre-time recording of up to 300 seconds before the event is triggered and Post-time recording of up to 300 seconds after the event ends.

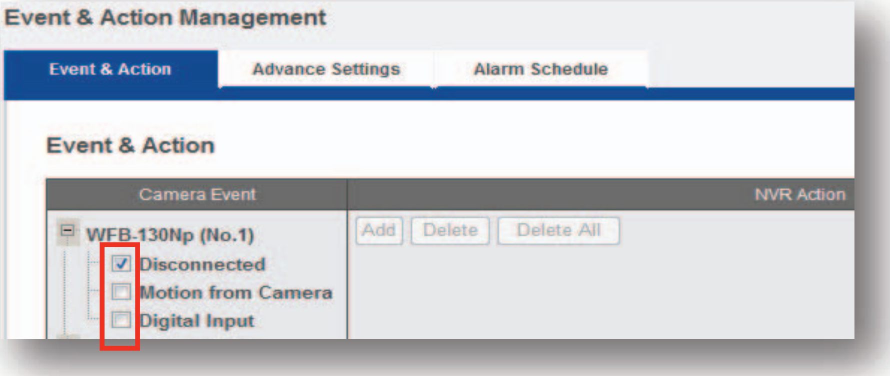
Click “**Apply**” to apply setting.

Alarm Schedule

You can set up the event detection for a certain duration.

Setup the alarm schedule

A. Enable the event detection in “Event & Action” by clicking any of the event checkboxes.


Event & Action Management

Event & Action
Advance Settings
Alarm Schedule

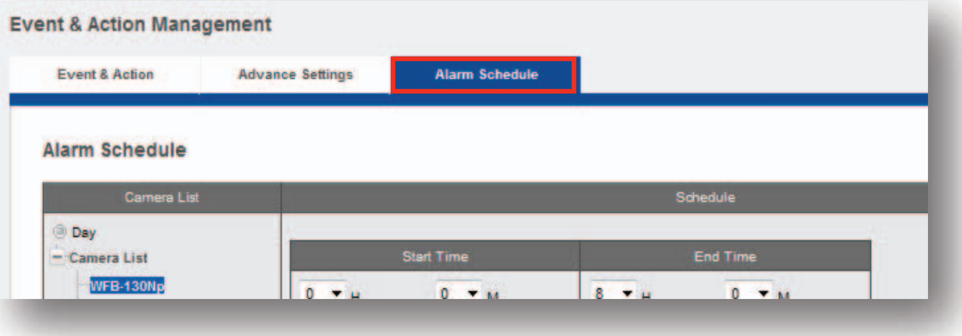
Event & Action

Camera Event
NVR Action
Add
Delete
Delete All

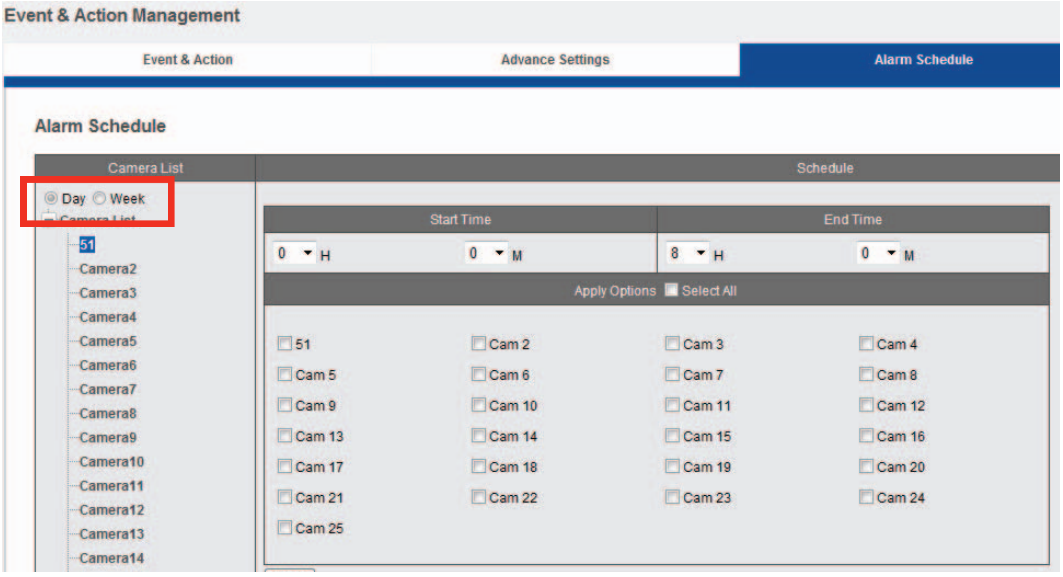
WFB-130Np (No.1)
- ☑ Disconnected
- ☐ Motion from Camera
- ☐ Digital Input

⚠ It automatically starts the alarm schedule with “always” mode.

B. Go to the alarm schedule setting page to set up.

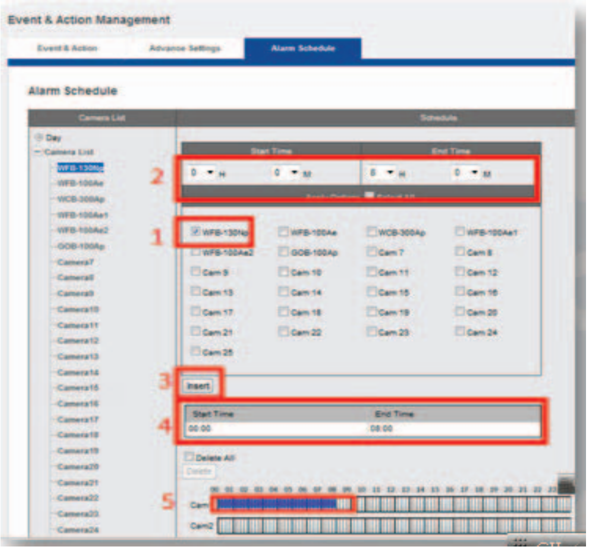

Event & Action Management
Event & Action
Advance Settings
Alarm Schedule
Alarm Schedule
Camera List
Schedule
Day
Camera List
WFB-130Np
Start Time
End Time
0 H
0 M
8 H
0 M

C. Set up the alarm schedule.


Event & Action Management
Event & Action
Advance Settings
Alarm Schedule
Alarm Schedule
Camera List
Schedule
Day
Week
Camera List
51
Camera2
Camera3
Camera4
Camera5
Camera6
Camera7
Camera8
Camera9
Camera10
Camera11
Camera12
Camera13
Camera14
Start Time
End Time
0 H
0 M
8 H
0 M
Apply Options
Select All
51
Cam 2
Cam 3
Cam 4
Cam 5
Cam 6
Cam 7
Cam 8
Cam 9
Cam 10
Cam 11
Cam 12
Cam 13
Cam 14
Cam 15
Cam 16
Cam 17
Cam 18
Cam 19
Cam 20
Cam 21
Cam 22
Cam 23
Cam 24
Cam 25

Select the type of alarm schedule

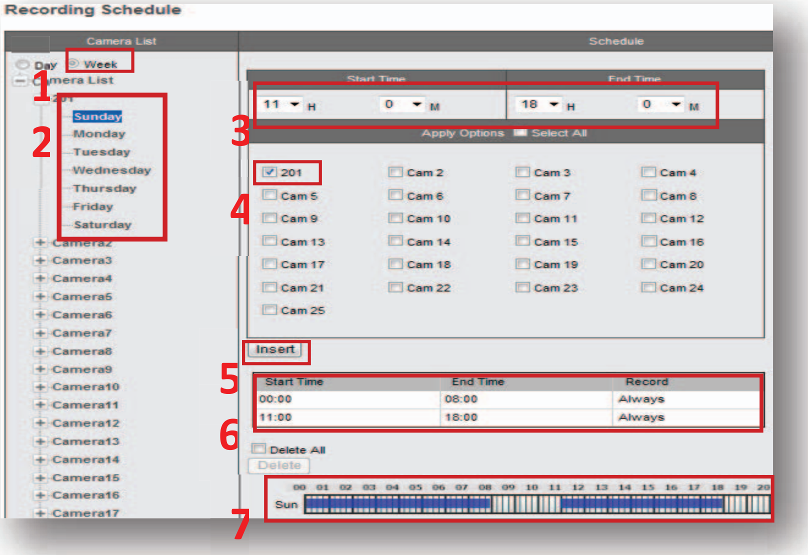
- By Day


Event & Action Management
Event & Action
Advance Settings
Alarm Schedule
Alarm Schedule
Camera List
Schedule
Day
Start Time
End Time
1
2
3
4
5
WFB-130Np
WFB-100Ae
WCB-300Ap
WFB-100Ae1
Insert
Start Time
End Time
00:00
08:00
Delete All
Delete

1. Select the camera
2. Designate the time period
3. Click Insert button to be effective
4. Designated duration will be displayed
5. Designated duration is shown on chart

Press Apply

- By Week


Recording Schedule
Camera List
Schedule
○ Day
● Week
Camera List
201
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Camera2
Camera3
Camera4
Camera5
Camera6
Camera7
Camera8
Camera9
Camera10
Camera11
Camera12
Camera13
Camera14
Camera15
Camera16
Camera17
Start Time
End Time
Apply Options
☐ Select All
☐ Cam 2
☐ Cam 3
☐ Cam 4
☐ Cam 5
☐ Cam 6
☐ Cam 7
☐ Cam 8
☐ Cam 9
☐ Cam 10
☐ Cam 11
☐ Cam 12
☐ Cam 13
☐ Cam 14
☐ Cam 15
☐ Cam 16
☐ Cam 17
☐ Cam 18
☐ Cam 19
☐ Cam 20
☐ Cam 21
☐ Cam 22
☐ Cam 23
☐ Cam 24
☐ Cam 25
Insert
☐ Delete All
Delete
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20
Sun
1
2
3
4
5
6
7

Start Time: 11 H 0 M
End Time: 18 H 0 M
☑ 201

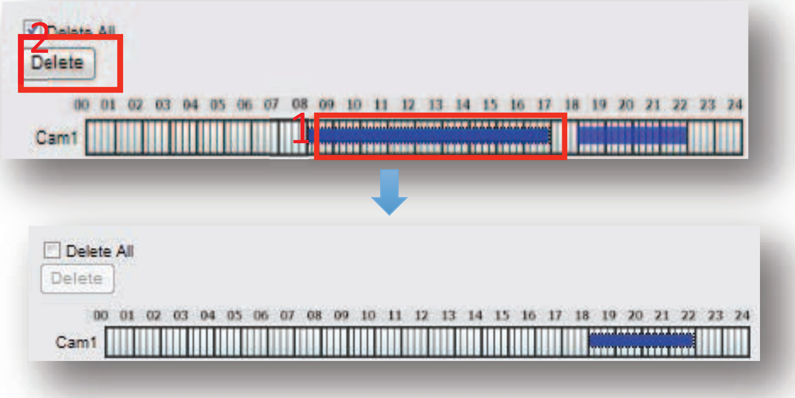
Start Time	End Time	Record
00:00	08:00	Always
11:00	18:00	Always

1. Select the schedule as “Week”
2. Select the day for the specific recording schedule
3. Designate the time period
4. Select the camera for adaption
5. Click insert to be effective
6. The designated duration will be displayed.
7. The designated duration will be shown in chart

Press “Apply

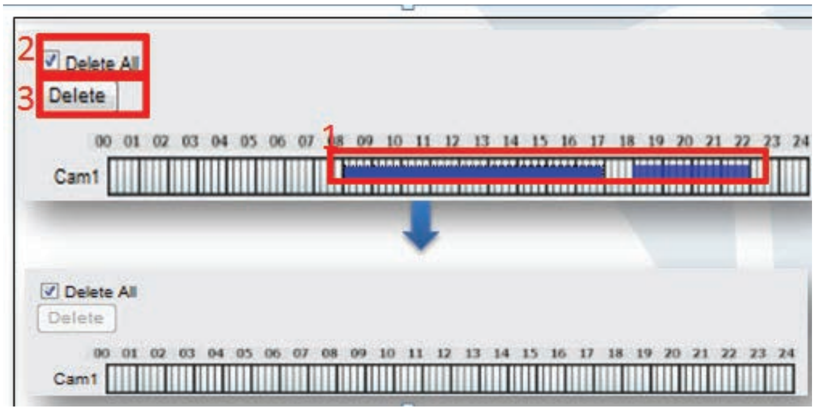
Remove the alarm schedule

Remove the alarm duration period


2
☑ Delete All
Delete
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
1
Cam1
☐ Delete All
Delete
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Cam1

1. Select the time period on the chart by clicking on it.
2. Click the Delete button.
3. The designated period is removed.

Remove all alarm periods in one camera

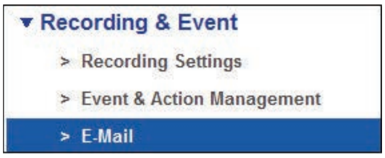

2
☑ Delete All
3
Delete
1
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Cam1
☑ Delete All
Delete
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Cam1

1. Click any period for the camera.
2. Select “Delete All” checkbox.
3. Click on Delete button.
4. All durations for the camera are removed.

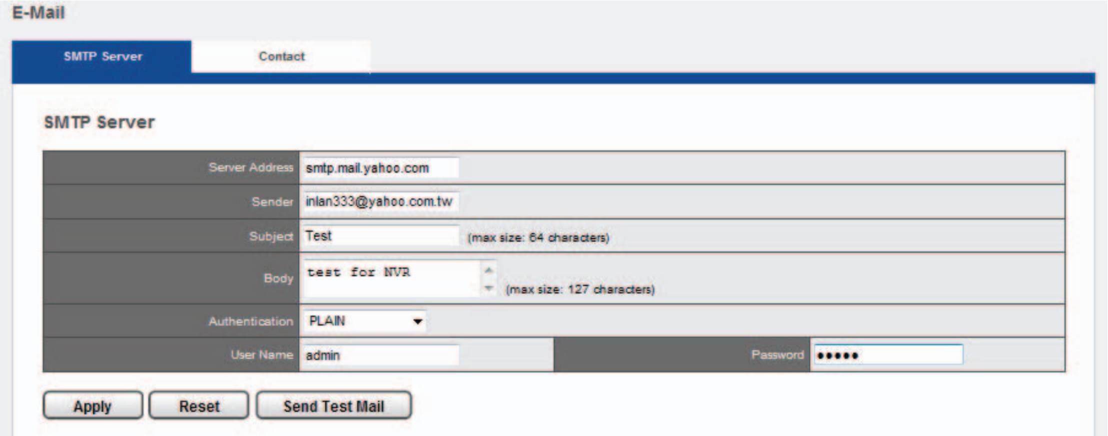
Note: It remains if the alarm schedule is in “always” mode

E-Mail

Please select “**E-Mail**” from the **Recording & Event d**rop-down menu to begin.


▼ Recording & Event
> Recording Settings
> Event & Action Management
> E-Mail

SMTP Server


E-Mail
SMTP Server
Contact
Apply
Reset
Send Test Mail

SMTP Server

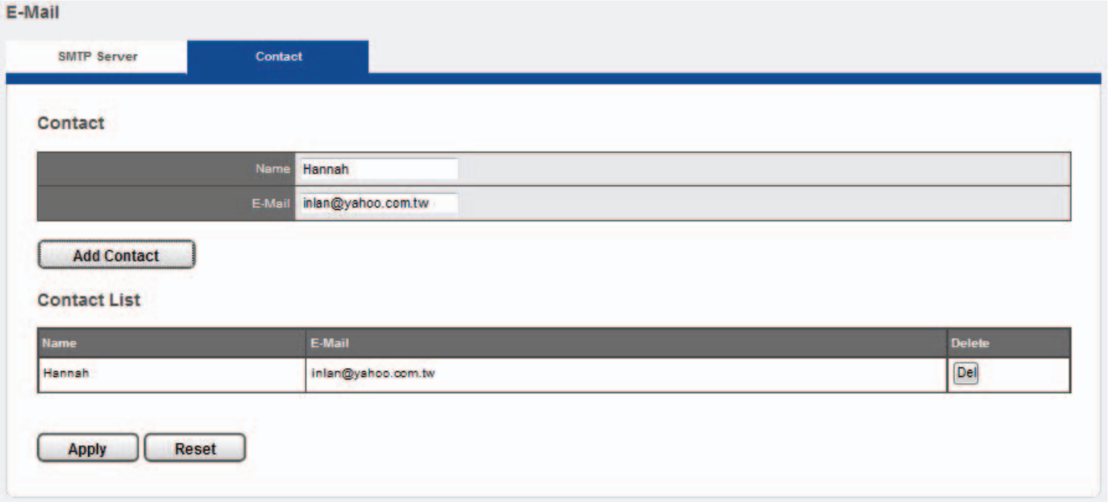
Server Address: smtp.mail.yahoo.com
Sender: inlan333@yahoo.com.tw
Subject: Test (max size: 64 characters)
Body: test for NVR (max size: 127 characters)
Authentication: PLAIN
User Name: admin
Password: •••••

- **Server Address**: Enter the Server Address of the SMTP server.
- **Sender**: Specify the sender's E-Mail in the "**Sender**" field.
- **Subject**: Enter the Subject.
- **Body**: Enter the text content in Body.
- **Authentication**: Depending on the mail sensor, SMTP Server provides three types of authentication. Select "**Authentication**" as "**PLAIN**", "**LOGIN**", or "**LOGIN with TLS**" according to the regulations for different SMTP servers.
- **User name**: Specify user name.
- **Password**: Specify user password.

Click "**Apply**" to finish or "**Send Test Mail**" to check the availability.

Contact

Add contacts by entering names and E-Mail addresses, and click "**Add Contact**."


E-Mail
SMTP Server
Contact
Add Contact
Apply
Reset

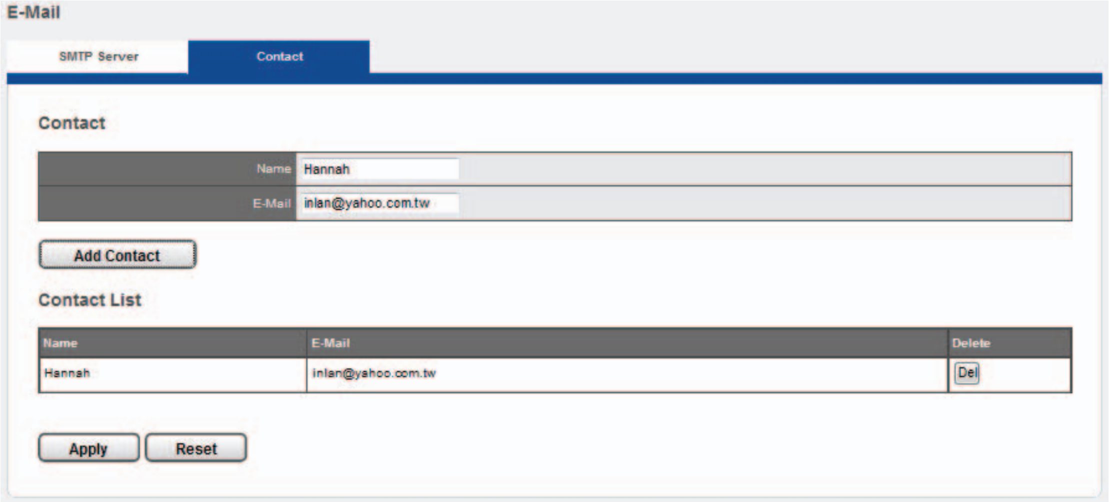
Contact

Name: Hannah
E-Mail: inlan@yahoo.com.tw

Contact List

Name	E-Mail	Delete
Hannah	inlan@yahoo.com.tw	Del

Contact List shows the information you entered. Click “**Apply**” to finish the settings.


E-Mail
SMTP Server
Contact
Add Contact
Apply
Reset

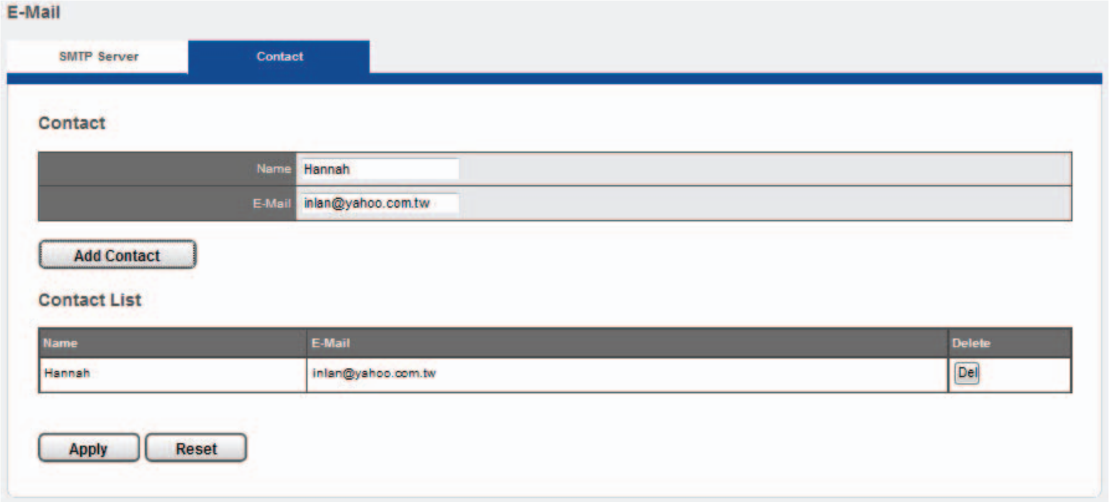
Contact

Name	Hannah
E-Mail	inlan@yahoo.com.tw

Contact List

Name	E-Mail	Delete
Hannah	inlan@yahoo.com.tw	Del

Results show in the following Contacts List and you can delete the contact or continue to add new contacts.


E-Mail
SMTP Server
Contact
Add Contact
Apply
Reset

Contact

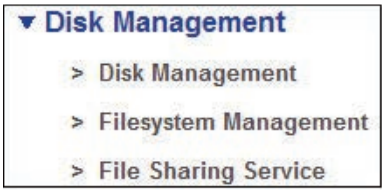
Name	Hannah
E-Mail	inlan@yahoo.com.tw

Contact List

Name	E-Mail	Delete
Hannah	inlan@yahoo.com.tw	Del

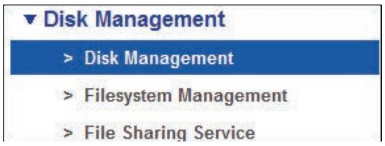
5.3 Disk Management

NVRPRO can create a new RAID disk or delete/format a RAID disk. Also, users can manage the NVRPRO’s storage device for data transmission and file sharing service.


▾ Disk Management
> Disk Management
> Filesystem Management
> File Sharing Service

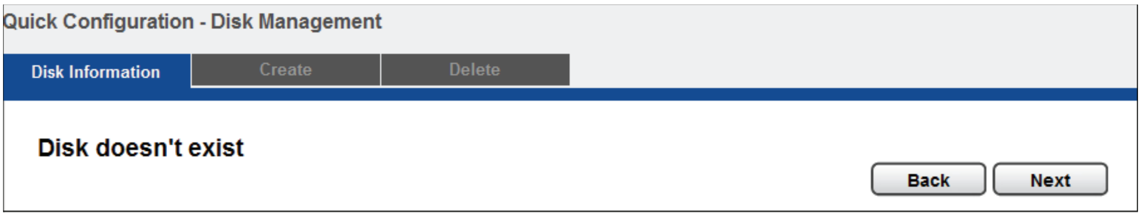
Disk Management

Select “**Disk Management**” from the **Disk Management** drop-down menu to begin.


▾ Disk Management
> Disk Management
> Filesystem Management
> File Sharing Service

- **Disk Information**

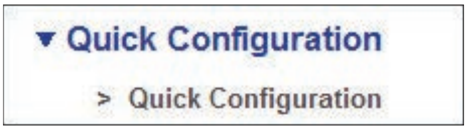
  If there is no hard disk installed in the NVRPRO, the page will show “**Disk doesn’t exist.**”

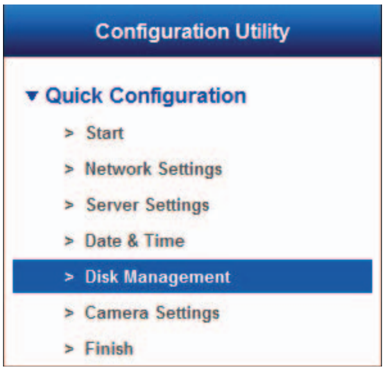

Quick Configuration - Disk Management
Disk Information
Create
Delete
Back
Next

Disk doesn't exist

For the steps used to create and delete a hard disk, please refer to the disk management of Quick Configuration.

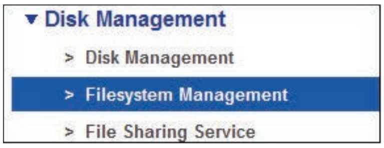
Please select “**Disk Management**” from the **Quick configuration** drop-down menu to begin.


▾ Quick Configuration
> Quick Configuration

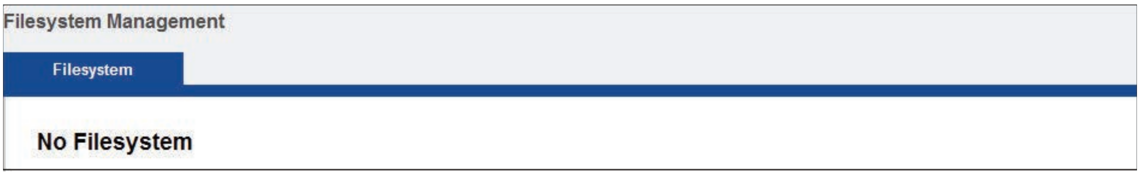

Configuration Utility
▾ Quick Configuration
> Start
> Network Settings
> Server Settings
> Date & Time
> Disk Management
> Camera Settings
> Finish

File System Management

Select “**File system Management**” from the **Disk Management** drop-down menu to begin.

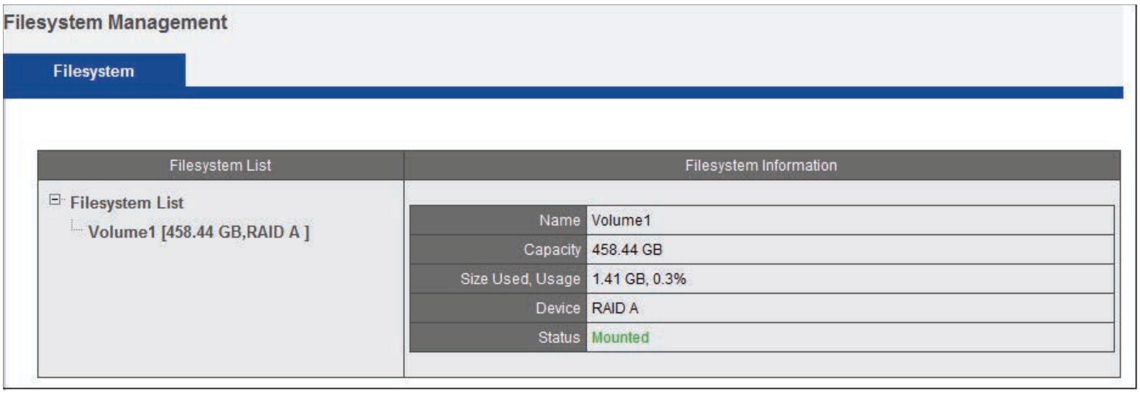

▼ Disk Management
> Disk Management
> Filesystem Management
> File Sharing Service

If there is no hard disk installed in the NVRPRO, the page will show “**No Filesystem.**”


Filesystem Management
Filesystem

No Filesystem

Once the hard disk is installed, the filesystem will show the volume of RAID as below.

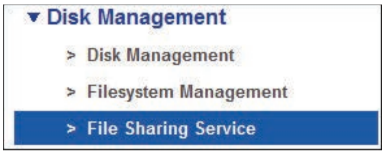

Filesystem Management
Filesystem
Filesystem List
Filesystem Information
⊟ Filesystem List
Volume1 [458.44 GB,RAID A]

Name	Volume1
Capacity	458.44 GB
Size Used, Usage	1.41 GB, 0.3%
Device	RAID A
Status	Mounted

File system provides an efficient method of organising data expected to be retained, after a program terminated, by providing procedures to store, retrieve and update data; as well as managing the available space on the device which contains it. NVRPRO provides a means for multiple programs to update data in the same file at nearly the same time.

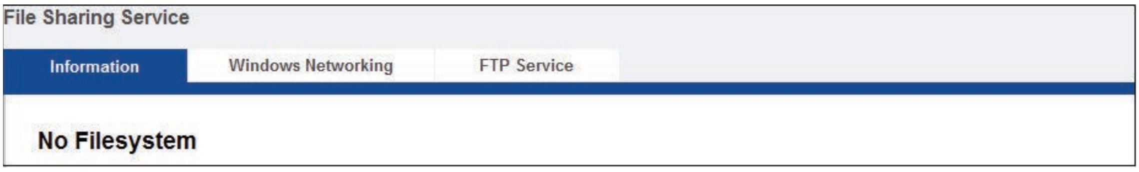
File Sharing Service

Select "**File Sharing Service**" from the **Disk Management** drop-down menu to begin.


▼ Disk Management
> Disk Management
> Filesystem Management
> File Sharing Service

Arrange data transmission service; including **Windows Networking** and **FTP service**.

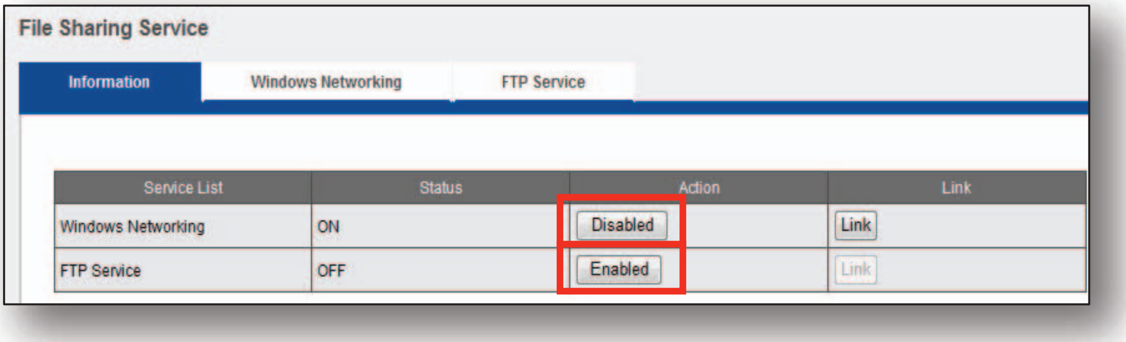
If there is no hard disk installed in the NVRPRO, the screen will show "**No Filesystem.**"


File Sharing Service
Information
Windows Networking
FTP Service

No Filesystem

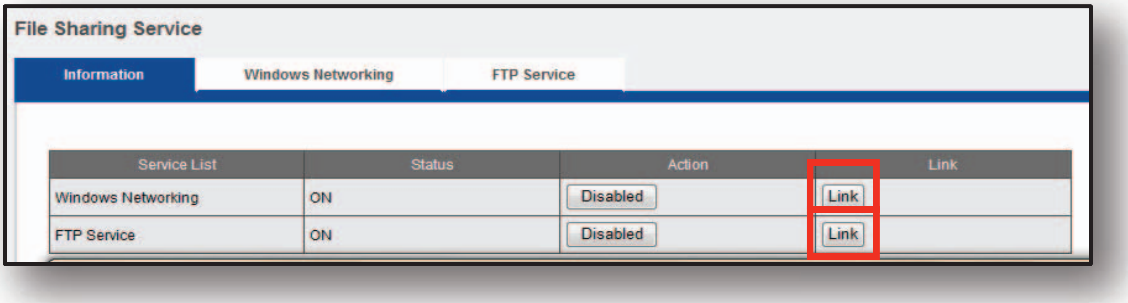
- **Information**

Once the hard disk is installed, the filesystem will show status as below. Turn On or turn Off the sharing service to enable or disable **Windows Networking** and **FTP service**.


File Sharing Service
Information
Windows Networking
FTP Service

Service List	Status	Action	Link
Windows Networking	ON	Disabled	Link
FTP Service	OFF	Enabled	Link

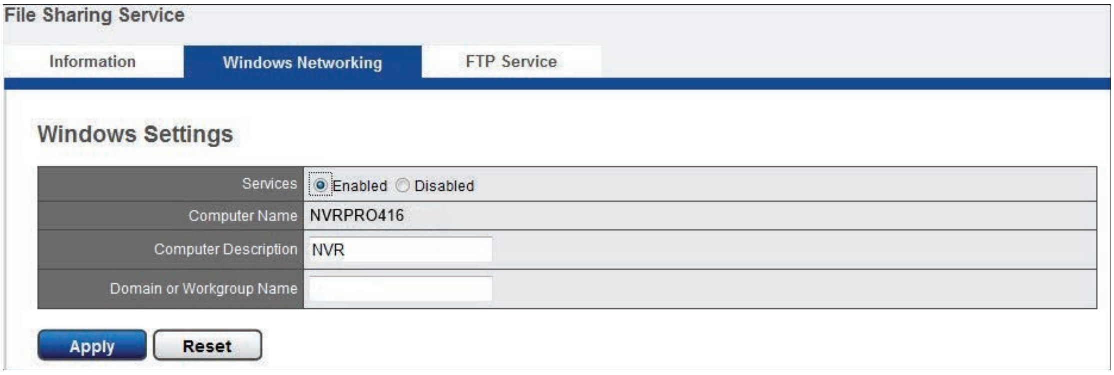
After the service is enabled, by using the link button on the File Sharing Service page, users can directly open the dialogue box of the windows sharing service and FTP service.


File Sharing Service
Information
Windows Networking
FTP Service

Service List	Status	Action	Link
Windows Networking	ON	Disabled	Link
FTP Service	ON	Disabled	Link

- **Windows Networking**

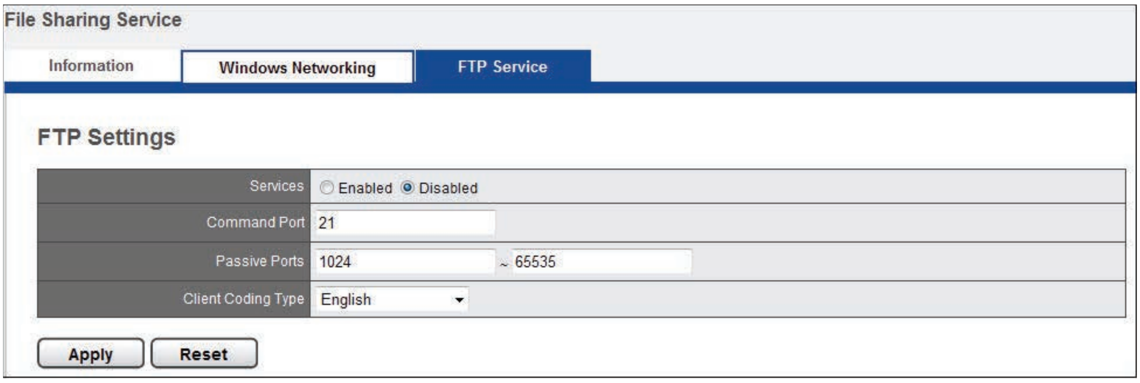
In the Windows Networking field users can enable or disable services, and **Computer Name** is shown. **Computer Description**, **Domain and Workgroup Name** can be changed.


File Sharing Service
Information
Windows Networking
FTP Service
Apply
Reset

Windows Settings

Services	● Enabled ○ Disabled
Computer Name	NVRPRO416
Computer Description	NVR
Domain or Workgroup Name	

- **FTP**


File Sharing Service
Information
Windows Networking
FTP Service
Apply
Reset

FTP Settings

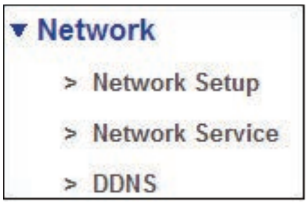
Services	○ Enabled ● Disabled
Command Port	21
Passive Ports	1024 ~ 65535
Client Coding Type	English

In FTP Settings you can enable or disable FTP Services.

Users can specify the **Command Port** and **Passive Ports** and configure the language interface in **Client Coding Type**.

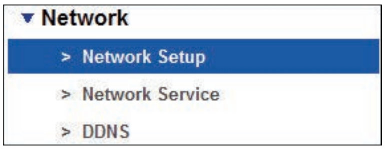
Click “**Apply**” to finish FTP settings.

5.4 Network Setup


▼ Network
> Network Setup
> Network Service
> DDNS

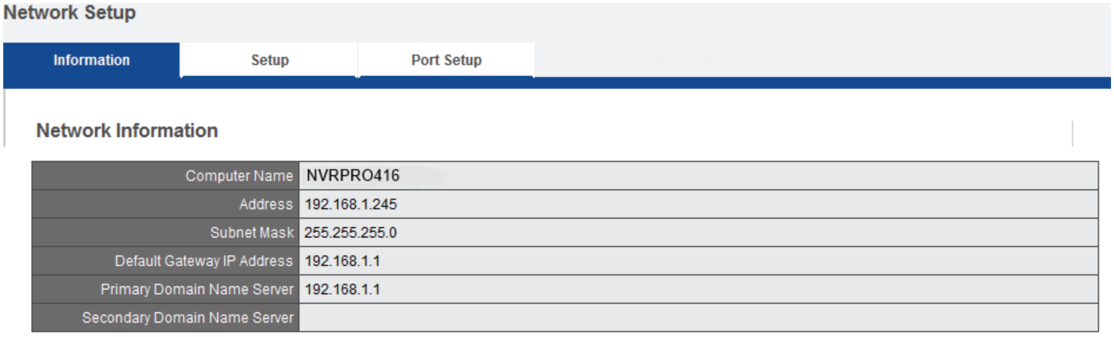
Network Setup

Select “**Network Setup**” from the **Network** drop-down menu to begin.


▼ Network
> Network Setup
> Network Service
> DDNS

This section explains how to configure the network connection with the NVR.

- **Information**

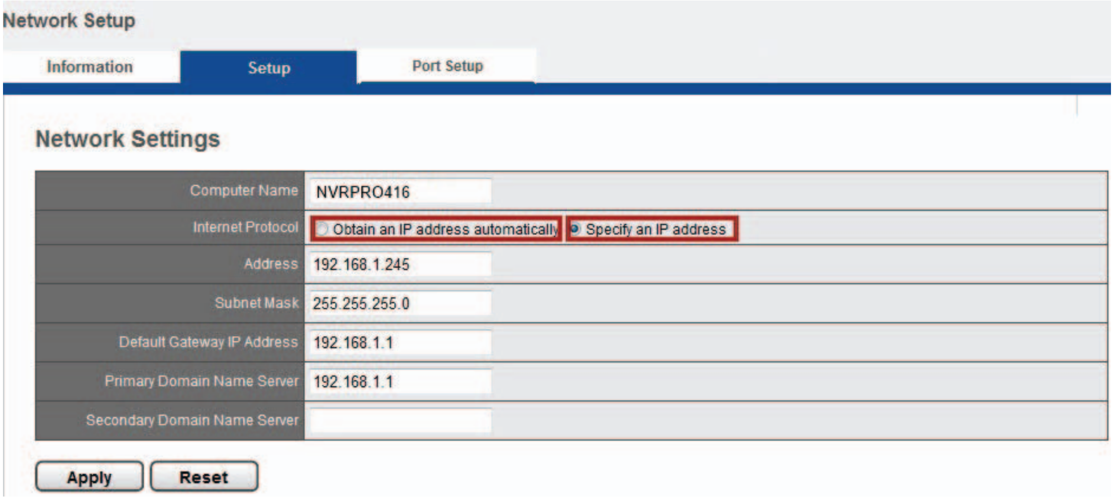

Network Setup
Information
Setup
Port Setup

Network Information

Computer Name	NVRPRO416
Address	192.168.1.245
Subnet Mask	255.255.255.0
Default Gateway IP Address	192.168.1.1
Primary Domain Name Server	192.168.1.1
Secondary Domain Name Server	

Network information displays present network configuration including: **Computer Name**, **IP address**, **Subnet mask, Default Gateway**, **Primary and Secondary DNS**.

- **Setup**


Network Setup
Information
Setup
Port Setup
Apply
Reset

Network Settings

Computer Name	NVRPRO416
Internet Protocol	○ Obtain an IP address automatically ● Specify an IP address
Address	192.168.1.245
Subnet Mask	255.255.255.0
Default Gateway IP Address	192.168.1.1
Primary Domain Name Server	192.168.1.1
Secondary Domain Name Server	

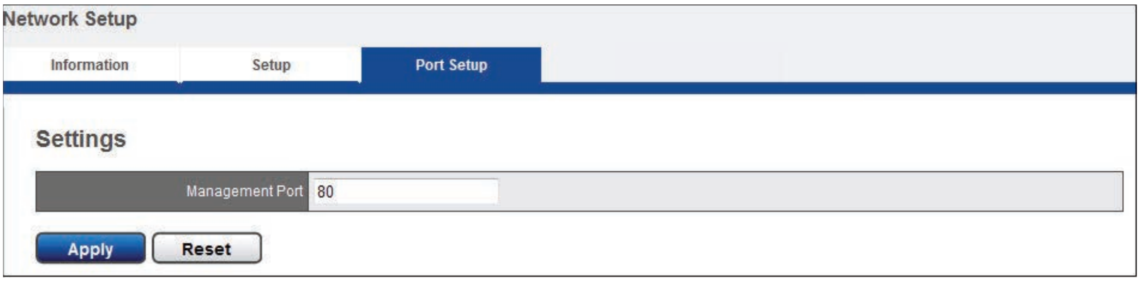
User can rename **Computer Name** and assign **DHCP** or **Static IP** address.

- **DHCP**: Obtain an available dynamic IP address assigned by a DHCP server. If this option is selected the NVRPRO automatically obtains an available dynamic IP address from the DHCP server each time it connects to the LAN.

- **Static IP**: If no DHCP server exists in the networking environment the IP address will be given as 192.168.1.245. This should be sufficient in most network environments and users can choose to maintain the default IP address or alter it in this page. However, it’s recommended that different IP address are set if there is more than one NVRPRO in the network.

- **Port Setup**

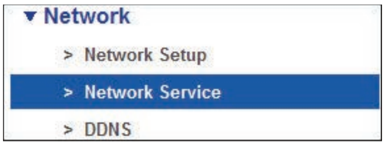
Set up transmission port to access the NVRPRO. The default port for NVRPRO connection is **80**.



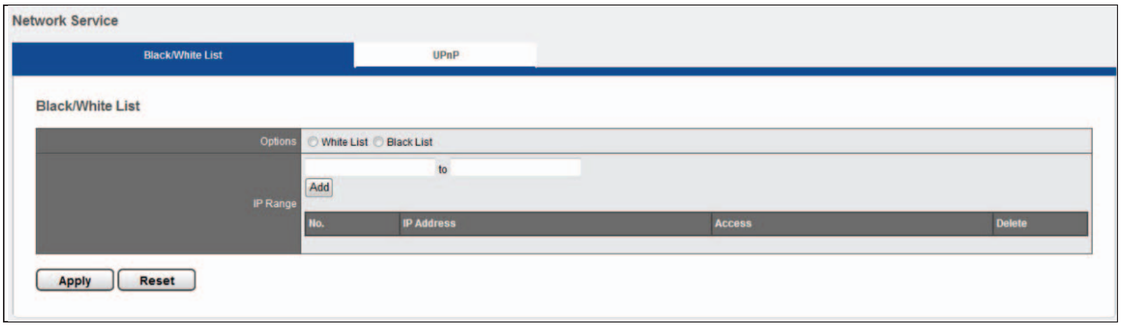
Management Port: 80

Network Service

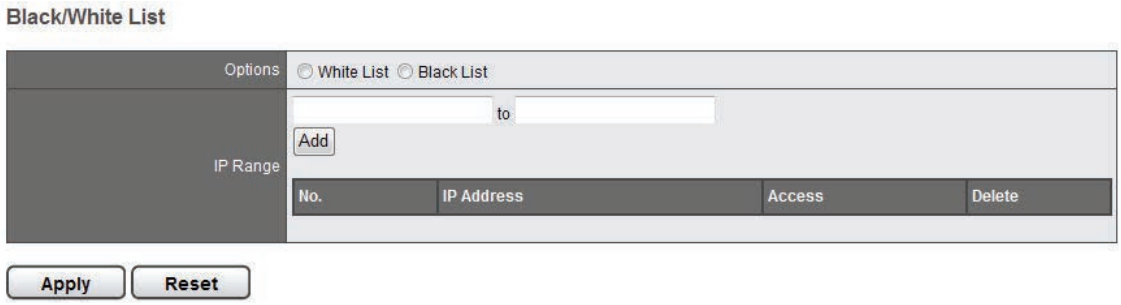
Select “**Network Service**” from the **Network** drop-down menu to begin.


▼ Network
> Network Setup
> Network Service
> DDNS

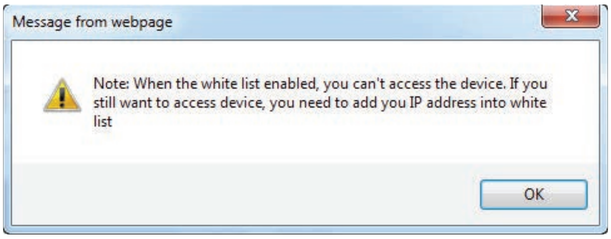
- **Black/ White List**


Network Service
Black/White List
UPnP
Black/White List
Options
○ White List ○ Black List
IP Range
to
Add
No.
IP Address
Access
Delete
Apply
Reset

Edit **White** or **Black List** to **allow** or **block** different IP addresses.

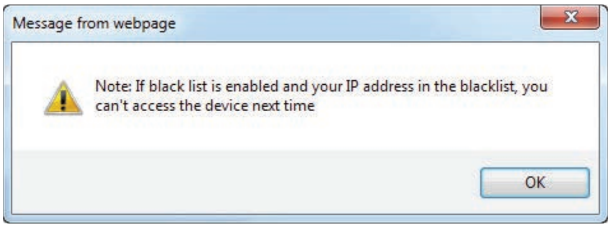

Black/White List
Options
○ White List ○ Black List
IP Range
to
Add
No.
IP Address
Access
Delete
Apply
Reset

As White List is enabled, a window will pop up to confirm the selection.


Message from webpage
OK

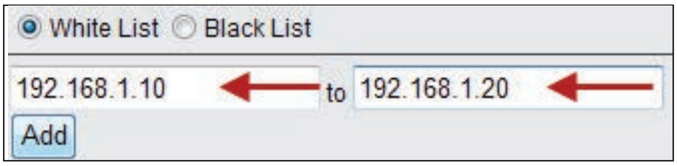
Note: When the white list enabled, you can't access the device. If you still want to access device, you need to add you IP address into white list

As Black List is enabled, a window will pop up to confirm the selection.


Message from webpage
OK

Note: If black list is enabled and your IP address in the blacklist, you can't access the device next time

Enter the IP address range to add to the White or Black Lists.

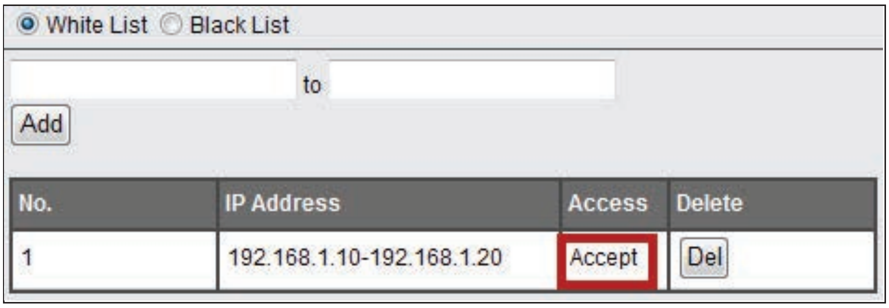

● White List ○ Black List

192.168.1.10 to 192.168.1.20

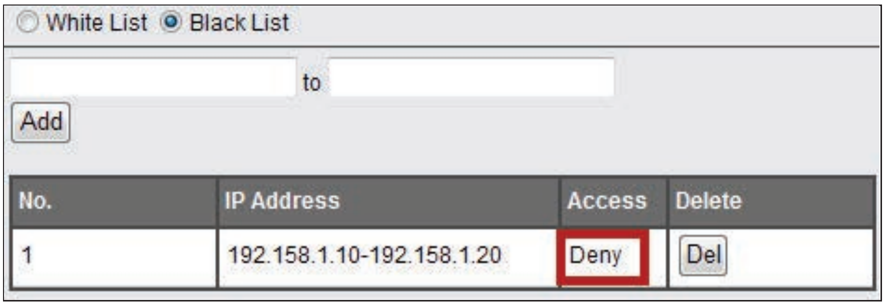
Add

Note: The above IP address is only an example for reference. Users are recommended to take care when adding to the lists.

After the White List or Black List is amended, the following information is displayed to accept or deny access. You can also delete the list.

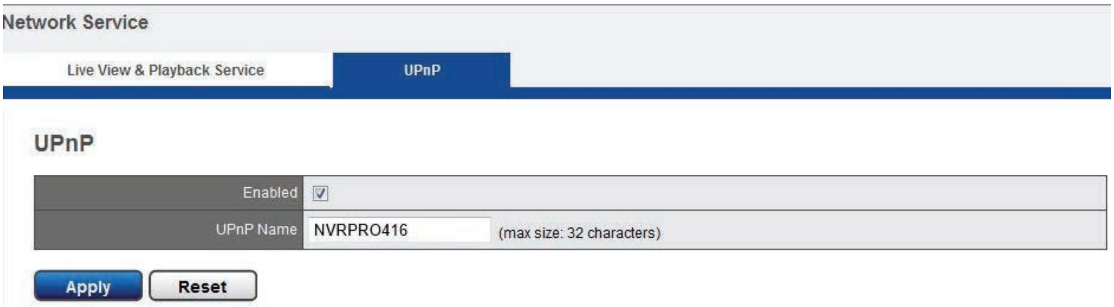

● White List ○ Black List
to
Add

No.	IP Address	Access	Delete
1	192.168.1.10-192.168.1.20	Accept	Del


○ White List ● Black List
to
Add

No.	IP Address	Access	Delete
1	192.158.1.10-192.158.1.20	Deny	Del

- **UPnP**


Network Service
Live View & Playback Service
UPnP
UPnP

Enabled	☑
UPnP Name	NVRPRO416 (max size: 32 characters)

Apply
Reset

Enable or disable **UPnP** search.

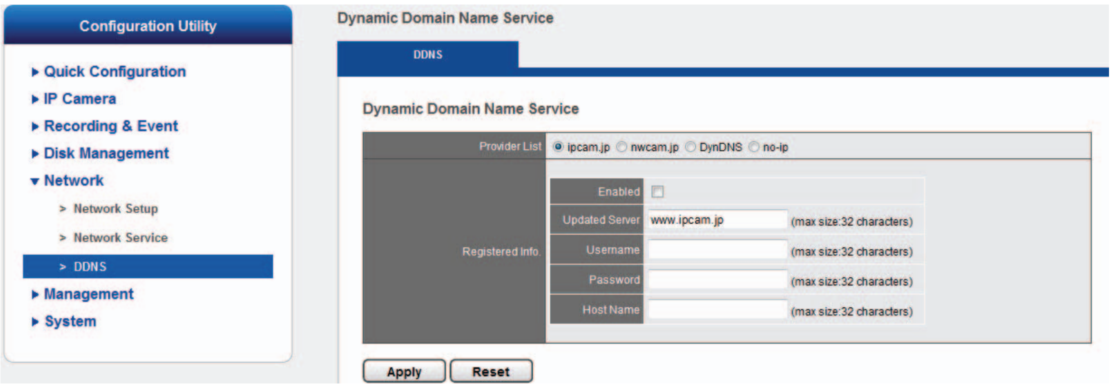
Rename **UPnP**.

Note: The maximum characters allowed in a UPnP Name is **32**.

Click “**Apply**” to execute the settings.

DDNS

Select “**DDNS**” from the **Network** drop-down menu to begin.


Configuration Utility
Quick Configuration
IP Camera
Recording & Event
Disk Management
Network
Network Setup
Network Service
DDNS
Management
System
Dynamic Domain Name Service
DDNS
Apply
Reset

Dynamic Domain Name Service

Provider List ● ipcam.jp ○ nwcam.jp ○ DynDNS ○ no-ip

Registered Info.

Enabled ☐

Updated Server www.ipcam.jp (max size:32 characters)

Username (max size:32 characters)

Password (max size:32 characters)

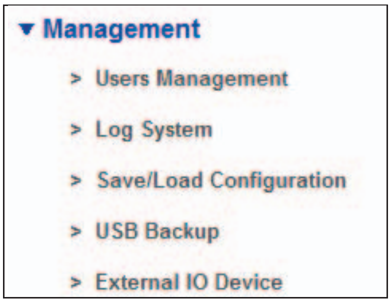
Host Name (max size:32 characters)

DDNS links a domain name to an IP address allowing users to easily access their cameras; even with a changing IP address. NVRPRO’s are compatible with four DDNS service providers (1) ipcam.jp (2) mwcam.jp (3) DynDNS, and (4) No-IP.

⚠NOTE - Before utilising this function please apply for a dynamic domain account from a DDNS provider.

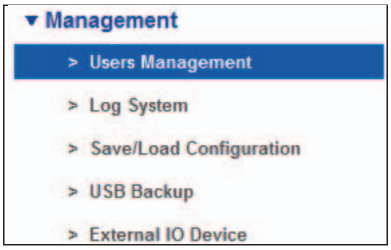
5.5 Management

In Management you can create, modify and change user's live view and playback access. Also, you can read various log information through log system and quickly save or load the configuration of the NVRPRO. Emergency backup of the latest video files and the external input and output control can also be set here.


▼ Management
> Users Management
> Log System
> Save/Load Configuration
> USB Backup
> External IO Device

User Management

Select "**User Management**" from the **Management** drop-down menu to begin.


▼ Management
> Users Management
> Log System
> Save/Load Configuration
> USB Backup
> External IO Device

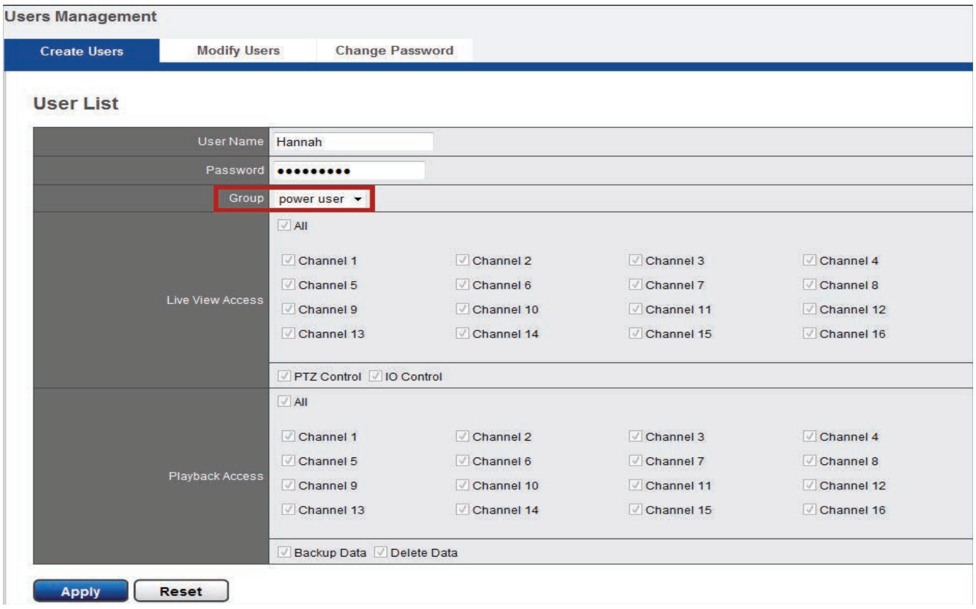
NVRPRO can be accessed by multiple user simultaneously – except the built-in Administrator account (user name "**admin**" and password "**admin**"). Administrator can also create other Power User and User accounts. Administrator possesses the most privileges. Power User and User can be given different live view and playback privileges for different channels.

Create User

Go to the Create User page.

- **Power User**

Enter a user name and password in the "**User List**" and select a group from the "**Group**" drop-down list to assign a new **power user**.
Live View Access and Playback Access are selected automatically for a Power User.


Users Management
Create Users
Modify Users
Change Password

User List

User Name: Hannah

Password: •••••••••

Group: power user

Live View Access: ☑ All

☑ Channel 1 ☑ Channel 2 ☑ Channel 3 ☑ Channel 4
☑ Channel 5 ☑ Channel 6 ☑ Channel 7 ☑ Channel 8
☑ Channel 9 ☑ Channel 10 ☑ Channel 11 ☑ Channel 12
☑ Channel 13 ☑ Channel 14 ☑ Channel 15 ☑ Channel 16

☑ PTZ Control ☑ IO Control

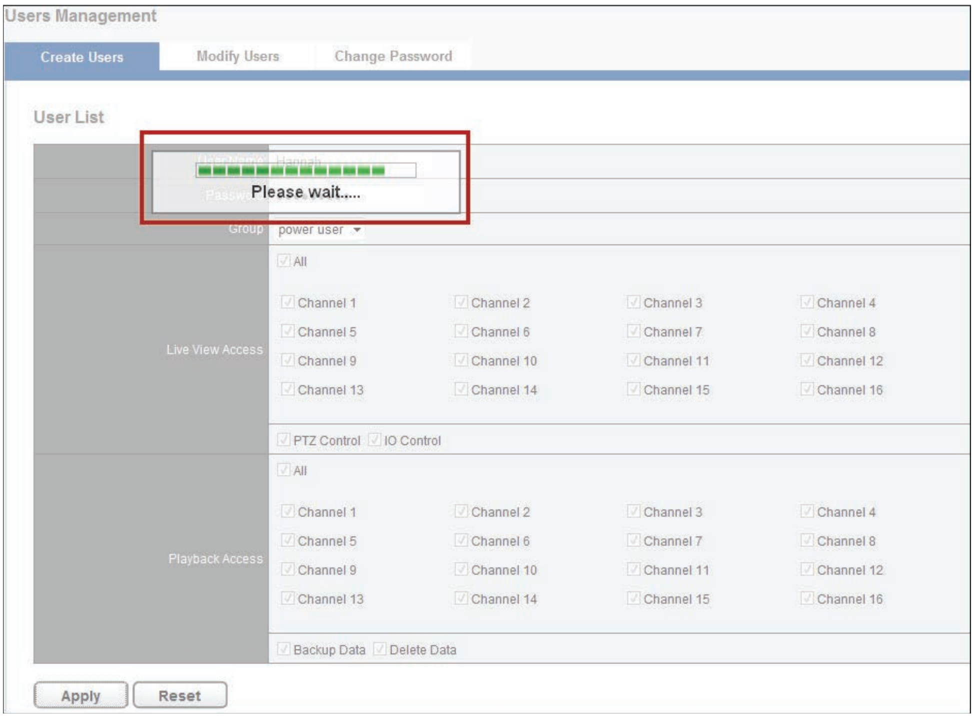
Playback Access: ☑ All

☑ Channel 1 ☑ Channel 2 ☑ Channel 3 ☑ Channel 4
☑ Channel 5 ☑ Channel 6 ☑ Channel 7 ☑ Channel 8
☑ Channel 9 ☑ Channel 10 ☑ Channel 11 ☑ Channel 12
☑ Channel 13 ☑ Channel 14 ☑ Channel 15 ☑ Channel 16

☑ Backup Data ☑ Delete Data

Apply
Reset

Click “**Apply**” to add a new Power User.


Users Management
Create Users
Modify Users
Change Password

User List

Please wait.....

Group: power user

Live View Access: ☑ All

☑ Channel 1 ☑ Channel 2 ☑ Channel 3 ☑ Channel 4
☑ Channel 5 ☑ Channel 6 ☑ Channel 7 ☑ Channel 8
☑ Channel 9 ☑ Channel 10 ☑ Channel 11 ☑ Channel 12
☑ Channel 13 ☑ Channel 14 ☑ Channel 15 ☑ Channel 16

☑ PTZ Control ☑ IO Control

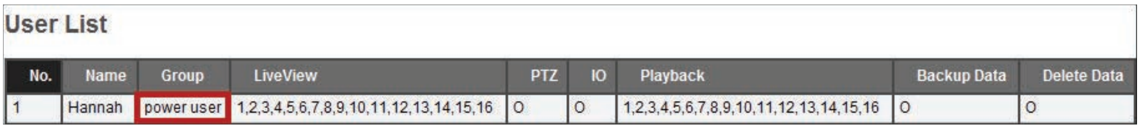
Playback Access: ☑ All

☑ Channel 1 ☑ Channel 2 ☑ Channel 3 ☑ Channel 4
☑ Channel 5 ☑ Channel 6 ☑ Channel 7 ☑ Channel 8
☑ Channel 9 ☑ Channel 10 ☑ Channel 11 ☑ Channel 12
☑ Channel 13 ☑ Channel 14 ☑ Channel 15 ☑ Channel 16

☑ Backup Data ☑ Delete Data

Apply
Reset

After the Power User is created, the User List displays the information below.

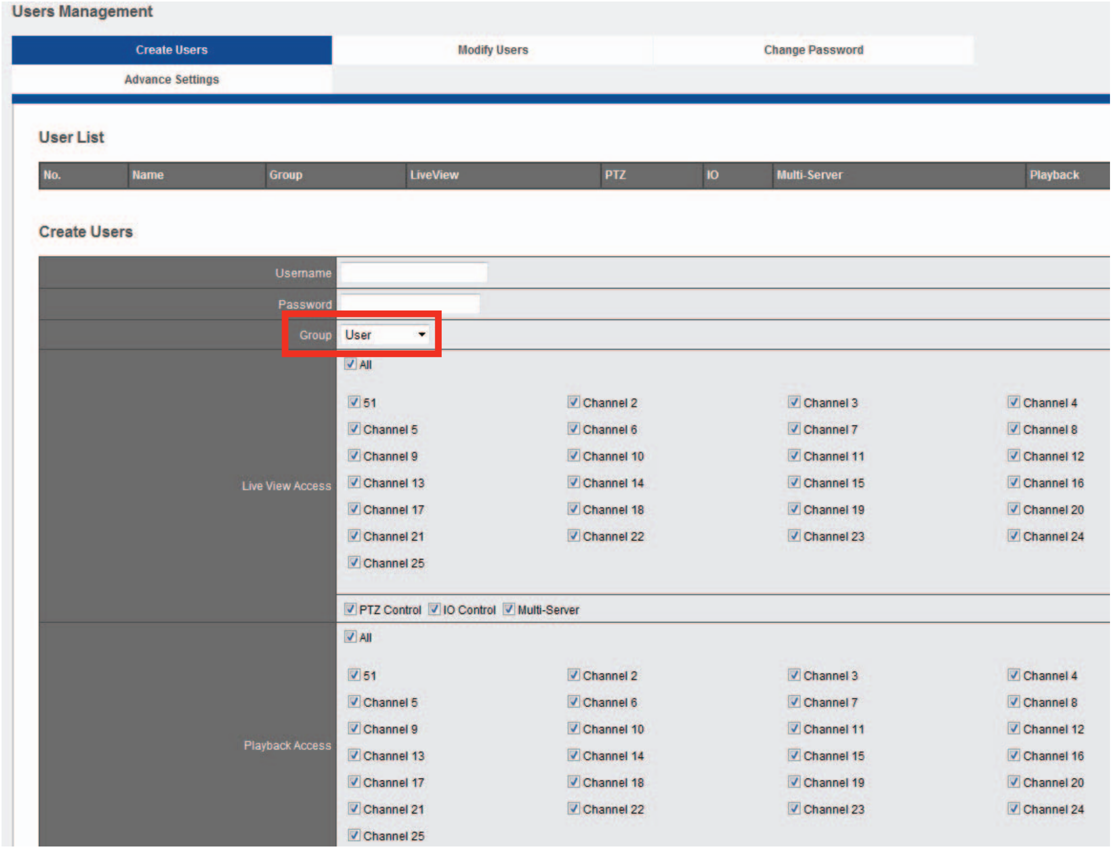


User List

No.	Name	Group	LiveView	PTZ	IO	Playback	Backup Data	Delete Data
1	Hannah	power user	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	O	O	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	O	O

- **User**

Administrator can also select a group from the “**Group**” drop-down list to assign a new User. Enter a username and password in “**User List.**” And select Live View Access and Playback Access for the new User.



User List

No.	Name	Group	LiveView	PTZ	IO	Multi-Server	Playback

Create Users

Username

Password

Group: User

Live View Access

☑ All

☑ 51	☑ Channel 2	☑ Channel 3	☑ Channel 4
☑ Channel 5	☑ Channel 6	☑ Channel 7	☑ Channel 8
☑ Channel 9	☑ Channel 10	☑ Channel 11	☑ Channel 12
☑ Channel 13	☑ Channel 14	☑ Channel 15	☑ Channel 16
☑ Channel 17	☑ Channel 18	☑ Channel 19	☑ Channel 20
☑ Channel 21	☑ Channel 22	☑ Channel 23	☑ Channel 24
☑ Channel 25			

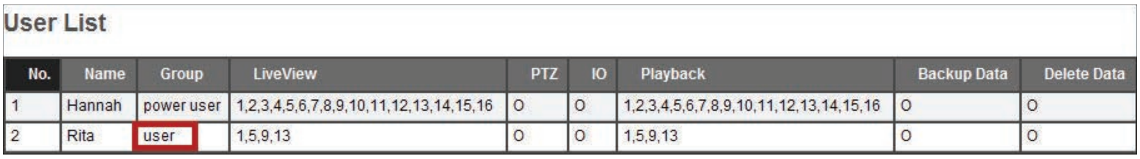
☑ PTZ Control ☑ IO Control ☑ Multi-Server

Playback Access

☑ All

☑ 51	☑ Channel 2	☑ Channel 3	☑ Channel 4
☑ Channel 5	☑ Channel 6	☑ Channel 7	☑ Channel 8
☑ Channel 9	☑ Channel 10	☑ Channel 11	☑ Channel 12
☑ Channel 13	☑ Channel 14	☑ Channel 15	☑ Channel 16
☑ Channel 17	☑ Channel 18	☑ Channel 19	☑ Channel 20
☑ Channel 21	☑ Channel 22	☑ Channel 23	☑ Channel 24
☑ Channel 25			

After a User is created, the User List displays the information below.



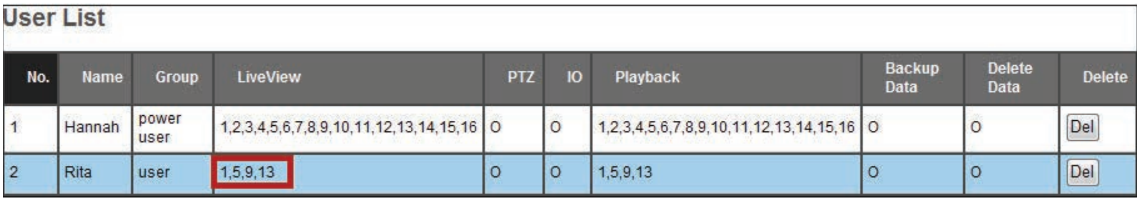
User List

No.	Name	Group	LiveView	PTZ	IO	Playback	Backup Data	Delete Data
1	Hannah	power user	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	O	O	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	O	O
2	Rita	user	1,5,9,13	O	O	1,5,9,13	O	O

Modify User

Go to the Modify User page.

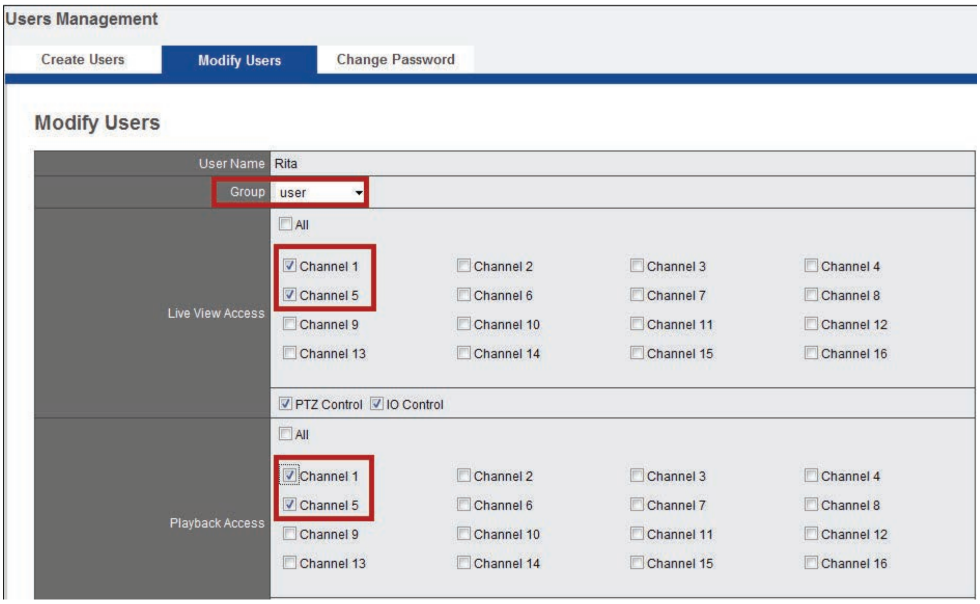
Select an account to modify the Power User or User.



User List

No.	Name	Group	LiveView	PTZ	IO	Playback	Backup Data	Delete Data	Delete
1	Hannah	power user	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	O	O	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	O	O	Del
2	Rita	user	1,5,9,13	O	O	1,5,9,13	O	O	Del

The selected account is highlighted in blue and the page for modifying the user appears; as below. You can change Live View Access and Playback Access. Click “**Apply**” to proceed.



Modify Users

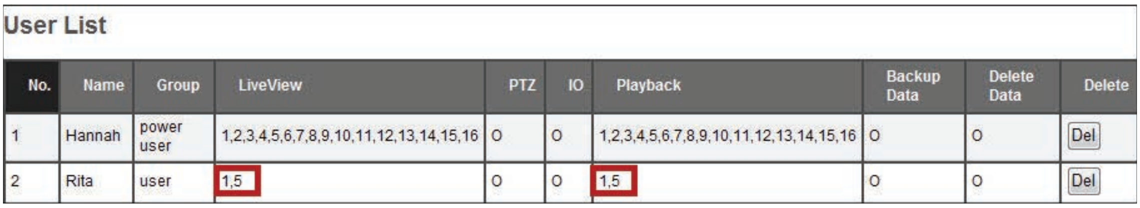
User Name: Rita

Group: user

Live View Access:
☐ All
☑ Channel 1 ☐ Channel 2 ☐ Channel 3 ☐ Channel 4
☑ Channel 5 ☐ Channel 6 ☐ Channel 7 ☐ Channel 8
☐ Channel 9 ☐ Channel 10 ☐ Channel 11 ☐ Channel 12
☐ Channel 13 ☐ Channel 14 ☐ Channel 15 ☐ Channel 16
☑ PTZ Control ☑ IO Control

Playback Access:
☐ All
☑ Channel 1 ☐ Channel 2 ☐ Channel 3 ☐ Channel 4
☑ Channel 5 ☐ Channel 6 ☐ Channel 7 ☐ Channel 8
☐ Channel 9 ☐ Channel 10 ☐ Channel 11 ☐ Channel 12
☐ Channel 13 ☐ Channel 14 ☐ Channel 15 ☐ Channel 16

After a User is modified, the User List displays the revised information.



User List

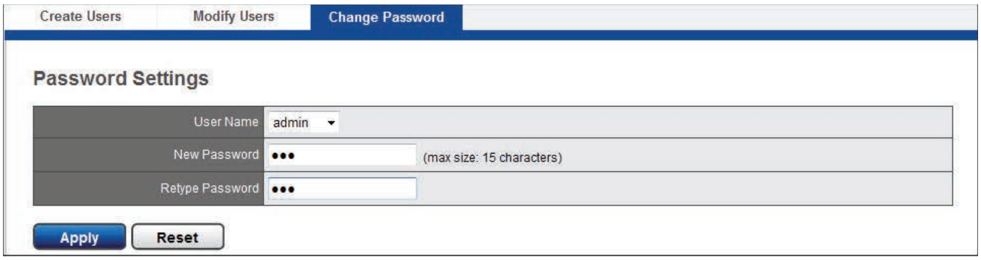
No.	Name	Group	LiveView	PTZ	IO	Playback	Backup Data	Delete Data	Delete
1	Hannah	power user	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	O	O	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	O	O	Del
2	Rita	user	1,5	O	O	1,5	O	O	Del

To delete the user account, click “**Del**.” on the User List.

Change Password

NVRPRO comes with a built-in administrator “**admin**” account with password “**admin**”. We recommended changing the password at the initial login.

Select an account from the “**User Name**” drop-down list to change password. Enter a new password in the “**New Password**” box and enter it again in “**Retype Password**”. Click “**Apply**” and the password will be changed.



Password Settings

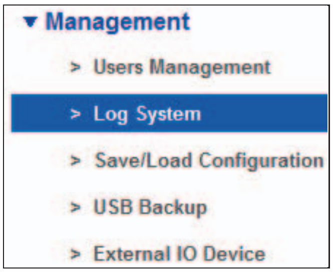
User Name: admin

New Password: ••• (max size: 15 characters)

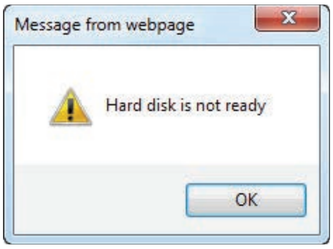
Retype Password: •••

Log System

Select “**Log System**” from the **Management** drop-down menu to begin.


Management
Users Management
Log System
Save/Load Configuration
USB Backup
External IO Device

If no hard disk is installed, the following window pops up when you click “**Log System**.”

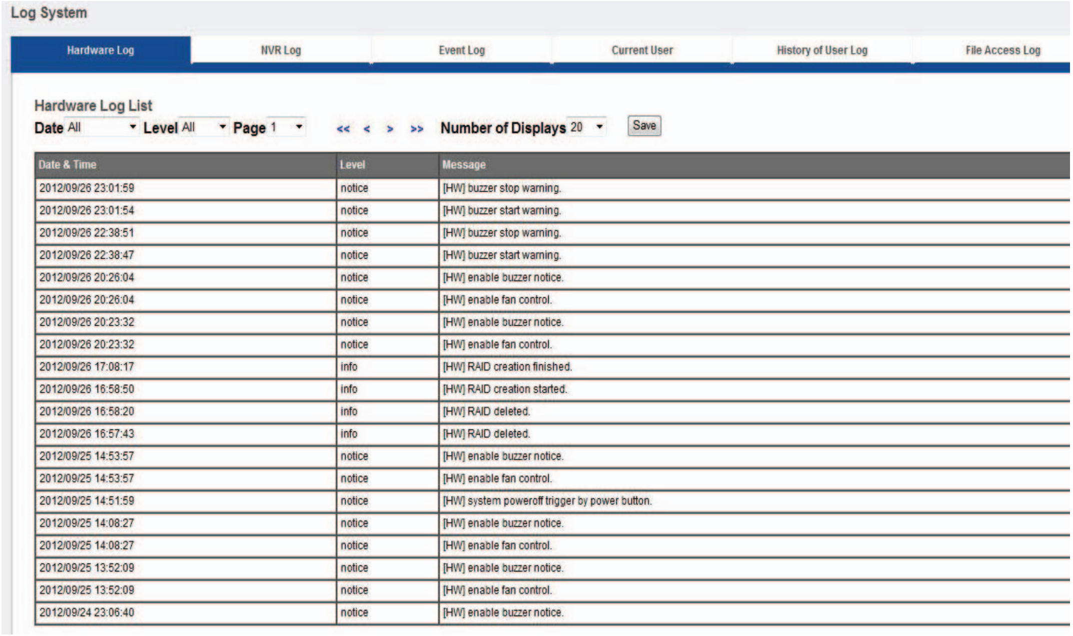

Message from webpage
OK

Hard disk is not ready

Once the hard disk is ready, Log System records the events of the NVRPRO and provides basic information for troubleshooting. Six log records are available: **Hardware Log**, **NVR Log**, **Event Log**, **Current User**, **Historical User Log**, **and File Access Log**.

- **Hardware Log**

The information in the Hardware Log includes **RAID creation**, **RAID deletion**, **RAID modification**, **CPU, buzzer, fan**, **system**, **sensor** and **USB.**

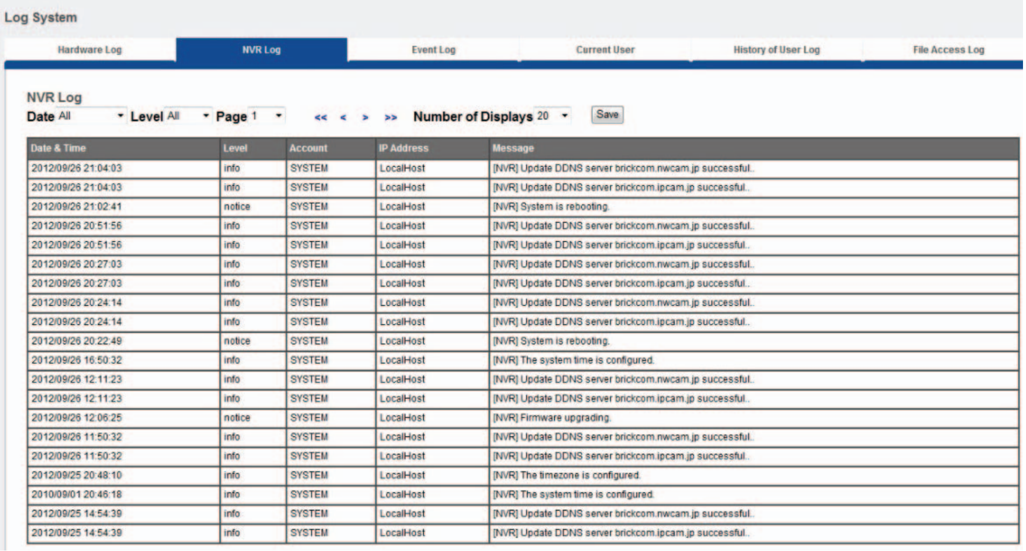

Log System
Hardware Log
NVR Log
Event Log
Current User
History of User Log
File Access Log
Hardware Log List
<<
<
>
>>
Save

Date All Level All Page 1 Number of Displays 20

Date & Time	Level	Message
2012/09/26 23:01:59	notice	[HW] buzzer stop warning.
2012/09/26 23:01:54	notice	[HW] buzzer start warning.
2012/09/26 22:38:51	notice	[HW] buzzer stop warning.
2012/09/26 22:38:47	notice	[HW] buzzer start warning.
2012/09/26 20:26:04	notice	[HW] enable buzzer notice.
2012/09/26 20:26:04	notice	[HW] enable fan control.
2012/09/26 20:23:32	notice	[HW] enable buzzer notice.
2012/09/26 20:23:32	notice	[HW] enable fan control.
2012/09/26 17:08:17	info	[HW] RAID creation finished.
2012/09/26 16:58:50	info	[HW] RAID creation started.
2012/09/26 16:58:20	info	[HW] RAID deleted.
2012/09/26 16:57:43	info	[HW] RAID deleted.
2012/09/25 14:53:57	notice	[HW] enable buzzer notice.
2012/09/25 14:53:57	notice	[HW] enable fan control.
2012/09/25 14:51:59	notice	[HW] system poweroff trigger by power button.
2012/09/25 14:08:27	notice	[HW] enable buzzer notice.
2012/09/25 14:08:27	notice	[HW] enable fan control.
2012/09/25 13:52:09	notice	[HW] enable buzzer notice.
2012/09/25 13:52:09	notice	[HW] enable fan control.
2012/09/24 23:06:40	notice	[HW] enable buzzer notice.

- **NVR Log**

The information in the NVR Log includes **time zone**, **daylight**, **system, firmware upgrading, configuration IP**, **recording files export,** and **storage**.



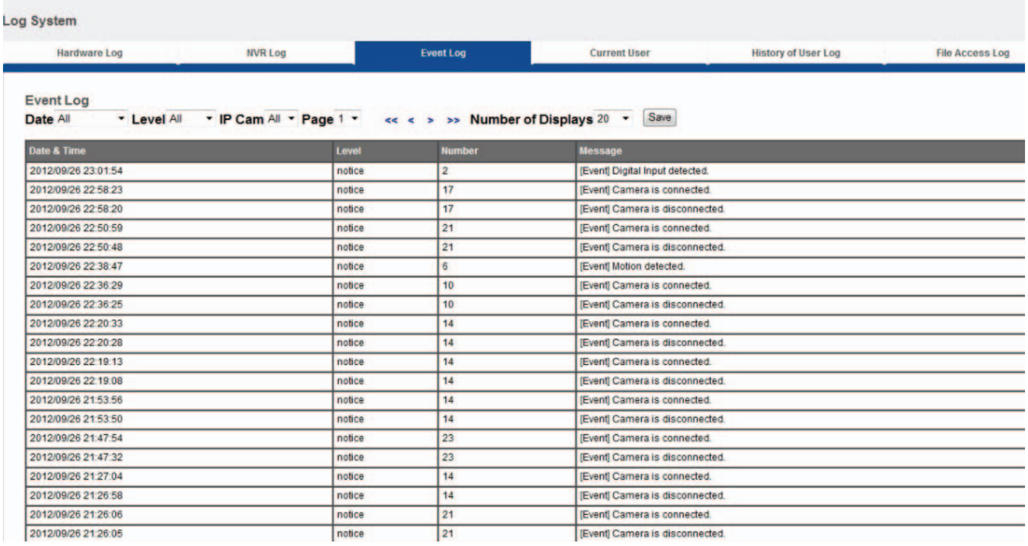
NVR Log

Date All · Level All · Page 1 · Number of Displays 20

Date & Time	Level	Account	IP Address	Message
2012/09/26 21:04:03	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.nwcam.jp successful..
2012/09/26 21:04:03	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.ipcam.jp successful..
2012/09/26 21:02:41	notice	SYSTEM	LocalHost	[NVR] System is rebooting.
2012/09/26 20:51:56	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.nwcam.jp successful..
2012/09/26 20:51:56	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.ipcam.jp successful..
2012/09/26 20:27:03	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.nwcam.jp successful..
2012/09/26 20:27:03	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.ipcam.jp successful..
2012/09/26 20:24:14	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.nwcam.jp successful..
2012/09/26 20:24:14	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.ipcam.jp successful..
2012/09/26 20:22:49	notice	SYSTEM	LocalHost	[NVR] System is rebooting.
2012/09/26 16:50:32	info	SYSTEM	LocalHost	[NVR] The system time is configured.
2012/09/26 12:11:23	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.nwcam.jp successful..
2012/09/26 12:11:23	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.ipcam.jp successful..
2012/09/26 12:06:25	notice	SYSTEM	LocalHost	[NVR] Firmware upgrading.
2012/09/26 11:50:32	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.nwcam.jp successful..
2012/09/26 11:50:32	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.ipcam.jp successful..
2012/09/25 20:48:10	info	SYSTEM	LocalHost	[NVR] The timezone is configured.
2010/09/01 20:46:18	info	SYSTEM	LocalHost	[NVR] The system time is configured.
2012/09/25 14:54:39	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.nwcam.jp successful..
2012/09/25 14:54:39	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.ipcam.jp successful..

- **Event Log**

The information in the Event Log includes “**Camera is connected**,” “**The camera is disconnected**,” “**Digital Input**,” “**Motion detected**” and “**Storage usage is out of limit**.” etc.



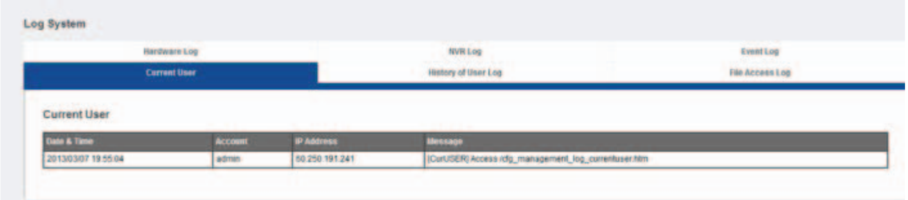
Event Log

Date All · Level All · IP Cam All · Page 1 · Number of Displays 20

Date & Time	Level	Number	Message
2012/09/26 23:01:54	notice	2	[Event] Digital Input detected.
2012/09/26 22:58:23	notice	17	[Event] Camera is connected.
2012/09/26 22:58:20	notice	17	[Event] Camera is disconnected.
2012/09/26 22:50:59	notice	21	[Event] Camera is connected.
2012/09/26 22:50:48	notice	21	[Event] Camera is disconnected.
2012/09/26 22:38:47	notice	6	[Event] Motion detected.
2012/09/26 22:36:29	notice	10	[Event] Camera is connected.
2012/09/26 22:36:25	notice	10	[Event] Camera is disconnected.
2012/09/26 22:20:33	notice	14	[Event] Camera is connected.
2012/09/26 22:20:28	notice	14	[Event] Camera is disconnected.
2012/09/26 22:19:13	notice	14	[Event] Camera is connected.
2012/09/26 22:19:08	notice	14	[Event] Camera is disconnected.
2012/09/26 21:53:56	notice	14	[Event] Camera is connected.
2012/09/26 21:53:50	notice	14	[Event] Camera is disconnected.
2012/09/26 21:47:54	notice	23	[Event] Camera is connected.
2012/09/26 21:47:32	notice	23	[Event] Camera is disconnected.
2012/09/26 21:27:04	notice	14	[Event] Camera is connected.
2012/09/26 21:26:58	notice	14	[Event] Camera is disconnected.
2012/09/26 21:26:06	notice	21	[Event] Camera is connected.
2012/09/26 21:26:05	notice	21	[Event] Camera is disconnected.

- **Current User**

The information in the Current User Log shows the current users logged in to the NVR with their IP addresses.

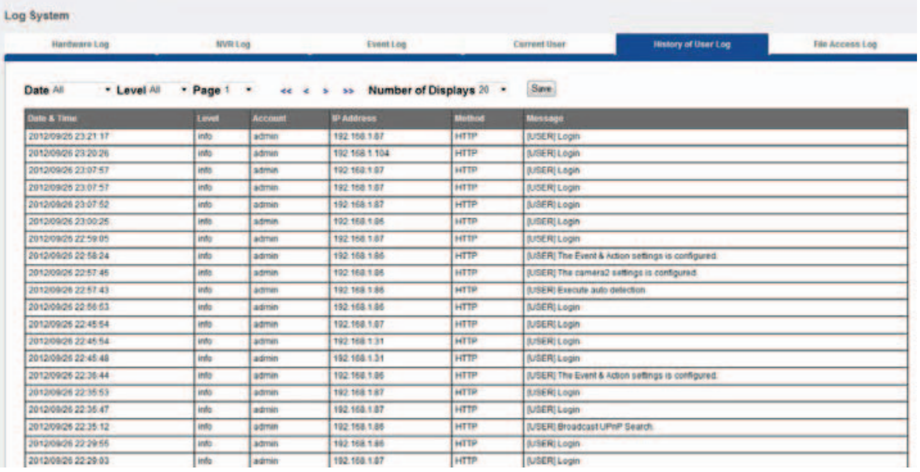


Current User

Date & Time	Account	IP Address	Message
2013/03/07 19:55:04	admin	60.250.191.241	[CurUSER] Access /cfg_management_log_currentuser.htm

- **Historical User Log**

The information in the Historical User Log records any users who have logged in to NVR. For example, “**Execute detect**,” “**Motion detected**,” “**FTP service is configured**,” “**Account is created**,” “**Execute system shutdown**,” etc.

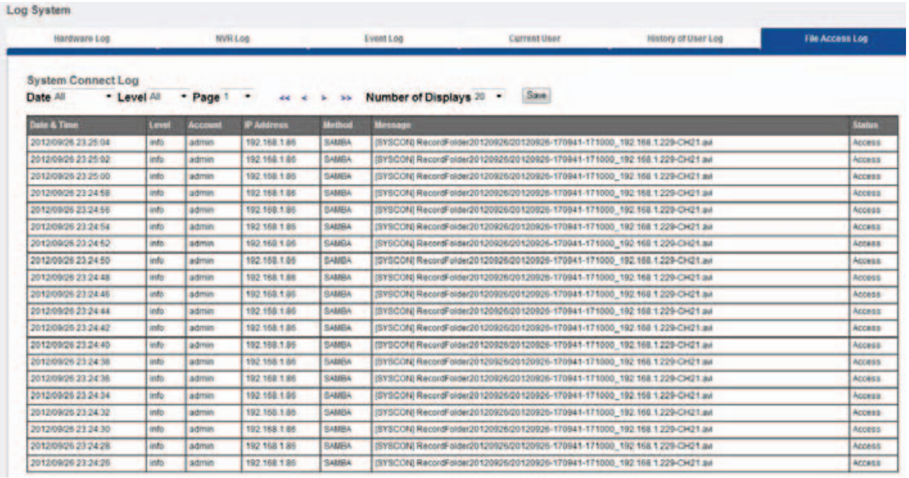


Date All ▾ Level All ▾ Page 1 ▾ Number of Displays 20 ▾

Date & Time	Level	Account	IP Address	Method	Message
2012/09/26 23:21:17	info	admin	192.168.1.87	HTTP	[USER] Login
2012/09/26 23:20:26	info	admin	192.168.1.104	HTTP	[USER] Login
2012/09/26 23:07:57	info	admin	192.168.1.87	HTTP	[USER] Login
2012/09/26 23:07:57	info	admin	192.168.1.87	HTTP	[USER] Login
2012/09/26 23:07:52	info	admin	192.168.1.87	HTTP	[USER] Login
2012/09/26 23:00:25	info	admin	192.168.1.86	HTTP	[USER] Login
2012/09/26 22:59:05	info	admin	192.168.1.87	HTTP	[USER] Login
2012/09/26 22:58:24	info	admin	192.168.1.86	HTTP	[USER] The Event & Action settings is configured.
2012/09/26 22:57:45	info	admin	192.168.1.86	HTTP	[USER] The camera2 settings is configured.
2012/09/26 22:57:43	info	admin	192.168.1.86	HTTP	[USER] Execute auto detection.
2012/09/26 22:56:53	info	admin	192.168.1.86	HTTP	[USER] Login
2012/09/26 22:45:54	info	admin	192.168.1.87	HTTP	[USER] Login
2012/09/26 22:45:54	info	admin	192.168.1.31	HTTP	[USER] Login
2012/09/26 22:45:48	info	admin	192.168.1.31	HTTP	[USER] Login
2012/09/26 22:36:44	info	admin	192.168.1.86	HTTP	[USER] The Event & Action settings is configured.
2012/09/26 22:35:53	info	admin	192.168.1.87	HTTP	[USER] Login
2012/09/26 22:35:47	info	admin	192.168.1.87	HTTP	[USER] Login
2012/09/26 22:35:12	info	admin	192.168.1.86	HTTP	[USER] Broadcast UPnP Search.
2012/09/26 22:29:55	info	admin	192.168.1.86	HTTP	[USER] Login
2012/09/26 22:29:03	info	admin	192.168.1.87	HTTP	[USER] Login

- **File Access Log**

The message occurred is related to other method to get in NVRPRO such as SAMBA or FTP.



System Connect Log

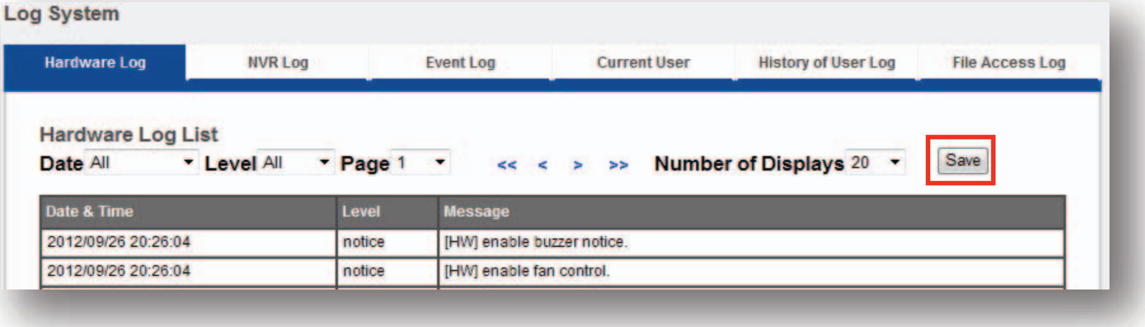
Date All ▾ Level All ▾ Page 1 ▾ Number of Displays 20 ▾

Date & Time	Level	Account	IP Address	Method	Message	Status
2012/09/26 23:25:04	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:25:02	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:25:00	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:58	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:56	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:54	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:52	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:50	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:48	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:46	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:44	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:42	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:40	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:38	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:36	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:34	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:32	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:30	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:28	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:26	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access

This section is for the File Access Log. The messages occurring relate to other access methods to the NVRPRO, such as SAMBA or FTP.

Export the Log Files

Users can export and save log files from the Log System page. Each log type corresponds to one log file.
The log content can be saved as html or txt format.

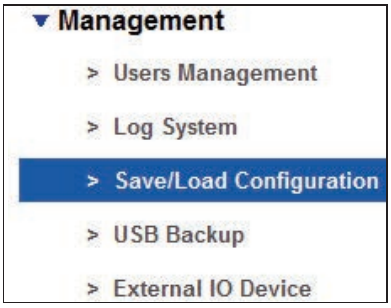

Log System
Hardware Log
NVR Log
Event Log
Current User
History of User Log
File Access Log
Hardware Log List
<<
<
>
>>
Save

Date All
Level All
Page 1
Number of Displays 20

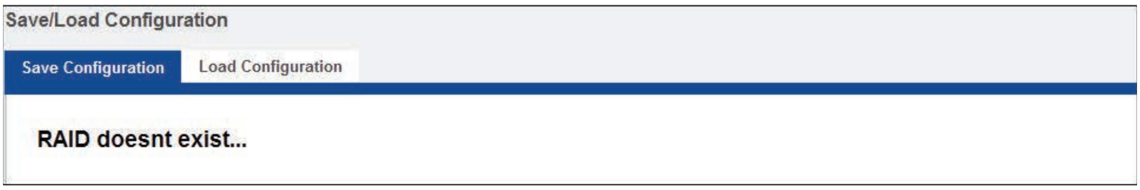
Date & Time	Level	Message
2012/09/26 20:26:04	notice	[HW] enable buzzer notice.
2012/09/26 20:26:04	notice	[HW] enable fan control.

Save/Load Configuration

Select "**Save/Load Configuration**" from the **Management** drop-down menu to begin.

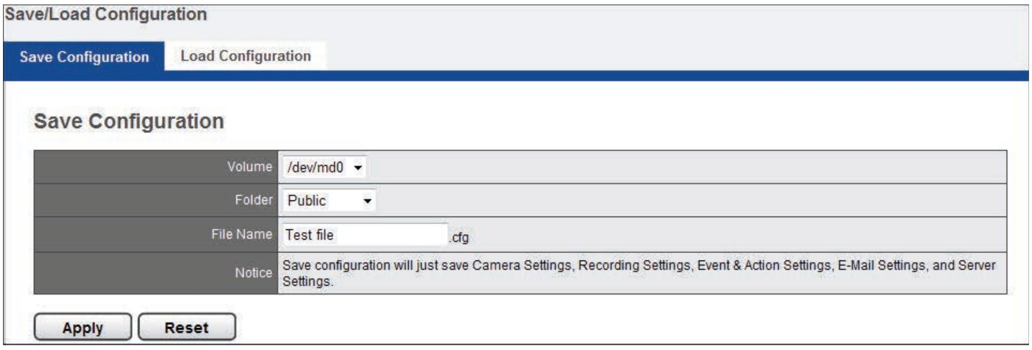

Management
Users Management
Log System
Save/Load Configuration
USB Backup
External IO Device

If the raid disk is not built, the following window pops up.


Save/Load Configuration
Save Configuration
Load Configuration

RAID doesnt exist...

- **Save Configuration**



Save/Load Configuration

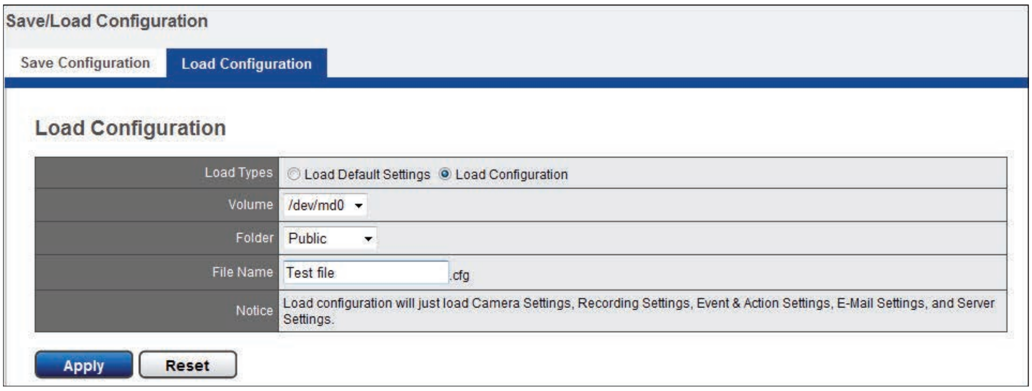
Save Configuration

Volume	/dev/md0
Folder	Public
File Name	Test file .cfg
Notice	Save configuration will just save Camera Settings, Recording Settings, Event & Action Settings, E-Mail Settings, and Server Settings.

Select Volume and Folder to save configuration in a cfg format file and to specify the File Name.

Note: Save configuration just **saves Camera Setting**, **Recording Settings**, **Event & Action Setting**, **E-Mail settings**, and **Server Settings**. The file is saved in the NVRPRO's Public folder.

- **Load Configuration**



Save/Load Configuration

Load Configuration

Load Types	○ Load Default Settings ● Load Configuration
Volume	/dev/md0
Folder	Public
File Name	Test file .cfg
Notice	Load configuration will just load Camera Settings, Recording Settings, Event & Action Settings, E-Mail Settings, and Server Settings.

Load configuration helps you duplicate the same settings from one NVRPRO to another without configuring the system manually. You can select the Load Type as “**Load Default Settings**” or “**Load Configuration**.” Once you select “**Load Default Settings**” and click “**Apply,**” the configuration for **Camera Setting**, **Recording Settings**, **Event & Action Setting**, **E-Mail settings**, and **Server Settings** change to default values.

When selecting “**Load Configuration**” browse the NVRPRO folder to find the saved configuration. Once file name is displayed, click “**Apply**” to load the configuration file.

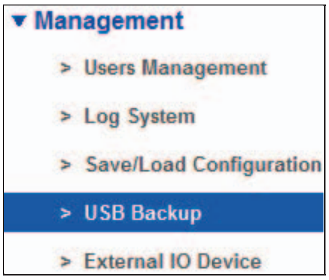
USB Backup

Users can preset the duration and channels of the USB Backup button on a Remote Web Browser for quickly backing up the latest video files. When a user inserts a USB device into the USB port in the NVRPRO (front panel backup area), and presses "**USB BACKUP**" for 3 seconds, the NVRPRO executes a USB backup and the latest video files are duplicated.
During the backup process the USB LED indicator blinks with a blue light. When the NVRPRO finishes duplicating the data onto the USB device, the blue light fades away.

⚠ **Note**: If any error occurs, including when the USB Backup function is not enabled, the USB LED indicator turns red as a warning.

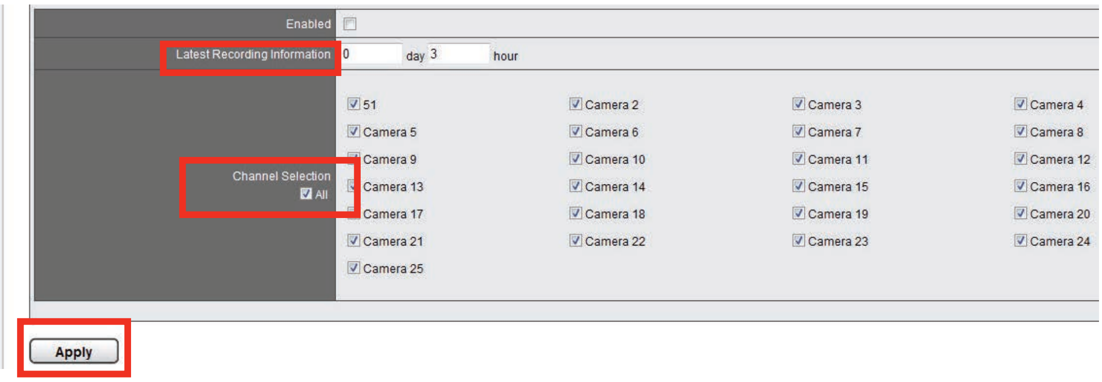
⚠ **Note:** The USB device format must be a FAT32 file system.

Select "**USB Backup**" from the **Management** drop-down menu to enable the USB Backup button function and setup the USB Backup button's channels. And the latest time duration for future duplication.



USB Back Up Button Setting

- USB Backup button function can be enabled or disabled.
- **The latest duration of recordings**: Users can set a maximum number of days and hours to backup the latest video files.
- **Channel Selection**: Users can select certain camera channels or click "**All**" channels for future backup. Click "**Apply**" to finish configuration.



Enabled ☐

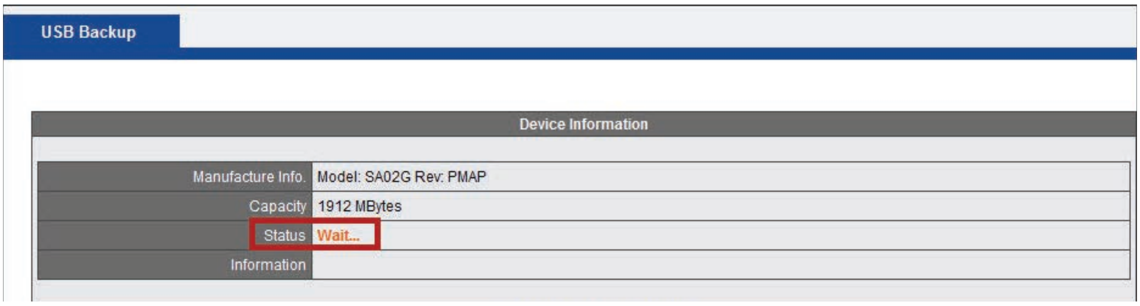
Latest Recording Information 0 day 3 hour

Channel Selection ☑ All

☑ 51	☑ Camera 2	☑ Camera 3	☑ Camera 4
☑ Camera 5	☑ Camera 6	☑ Camera 7	☑ Camera 8
☑ Camera 9	☑ Camera 10	☑ Camera 11	☑ Camera 12
☑ Camera 13	☑ Camera 14	☑ Camera 15	☑ Camera 16
Camera 17	☑ Camera 18	☑ Camera 19	☑ Camera 20
☑ Camera 21	☑ Camera 22	☑ Camera 23	☑ Camera 24
☑ Camera 25			

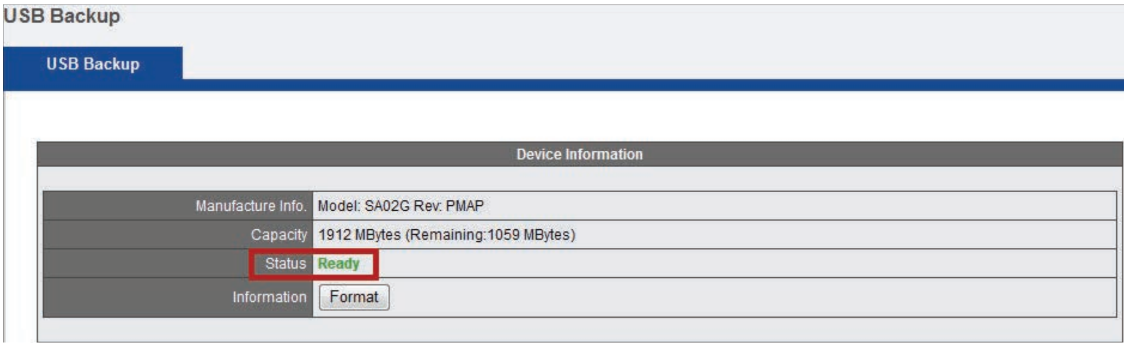
After finishing the setup insert a USB device into the local NVRPRO to backup the latest video files.

When a USB device is inserted to the NVRPRO the USB Backup Device Information in Remote Browser shows “**Wait...** ”. When the USB is ready to begin the Device Information shows “**Ready**” and the USB LED indicator turns blue. If you need to delete the current data on the USB, click “**Format”**.



Device Information

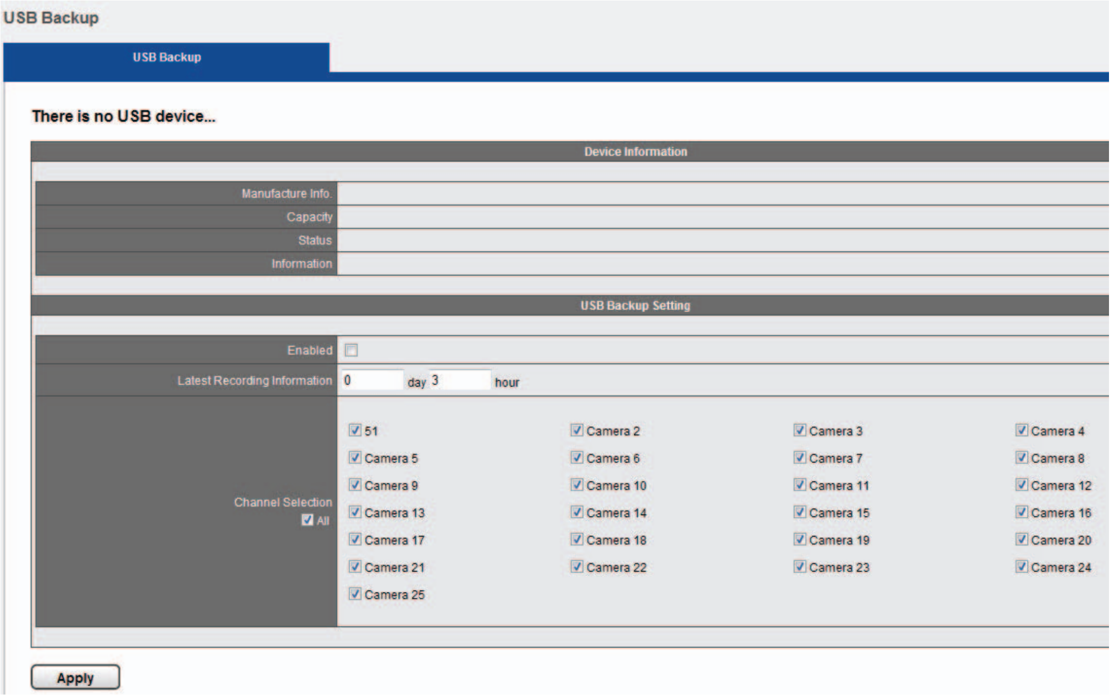
Manufacture Info.	Model: SA02G Rev: PMAP
Capacity	1912 MBytes
Status	Wait...
Information	



Device Information

Manufacture Info.	Model: SA02G Rev: PMAP
Capacity	1912 MBytes (Remaining:1059 MBytes)
Status	Ready
Information	Format

⚠ **Note**: If there is no USB device inserted into the NVRPRO, the screen shows “**There is no USB device…”**


USB Backup

USB Backup

There is no USB device...

Device Information

Manufacture Info.	
Capacity	
Status	
Information	

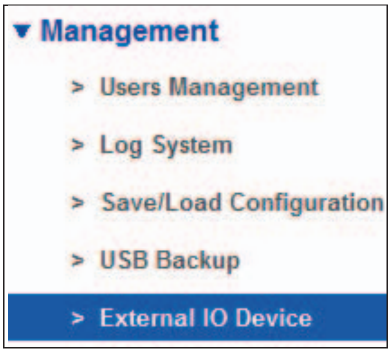
USB Backup Setting

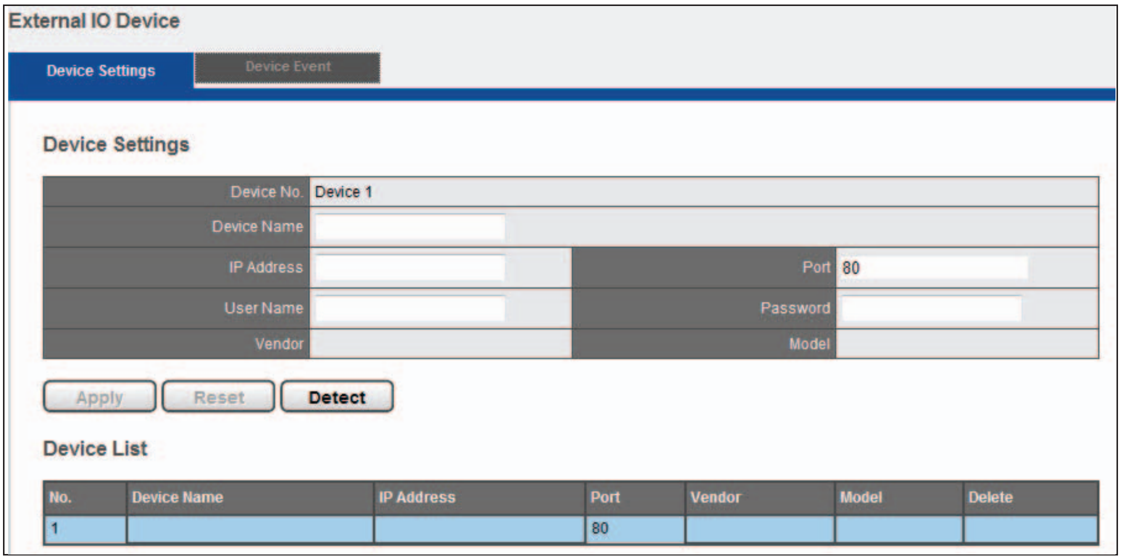
Enabled	☐
Latest Recording Information	0 day 3 hour
Channel Selection ☑ All	☑ 51 ☑ Camera 2 ☑ Camera 3 ☑ Camera 4 ☑ Camera 5 ☑ Camera 6 ☑ Camera 7 ☑ Camera 8 ☑ Camera 9 ☑ Camera 10 ☑ Camera 11 ☑ Camera 12 ☑ Camera 13 ☑ Camera 14 ☑ Camera 15 ☑ Camera 16 ☑ Camera 17 ☑ Camera 18 ☑ Camera 19 ☑ Camera 20 ☑ Camera 21 ☑ Camera 22 ☑ Camera 23 ☑ Camera 24 ☑ Camera 25

⚠ **Note**: NVR Player and NVR Check are downloaded with the video files.

External IO Device

Select “**External IO Device**” from the **Management** drop-down menu to begin.


▾ Management
> Users Management
> Log System
> Save/Load Configuration
> USB Backup
> External IO Device


External IO Device
Device Settings
Device Event
Apply
Reset
Detect

Device Settings

Device No.	Device 1		
Device Name			
IP Address		Port	80
User Name		Password	
Vendor		Model	

Device List

No.	Device Name	IP Address	Port	Vendor	Model	Delete
1			80			

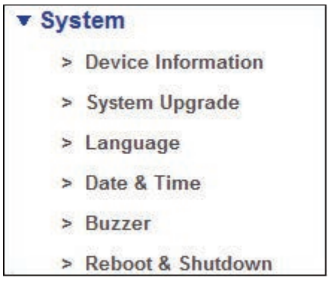
Enter the necessary information to add devices manually; information includes: **Device Name**, **IP Address**, **User Name** and **Password.**

Click “**Detect**” to check if the connection is successful or not.
Click “**Apply**” to finish the setting. "Vender" and "Model" are displayed automatically, if detectable.

Camera List shows all available device information including: **Camera Name**, **IP Address**, **Port**, **Vender** and **Model**.

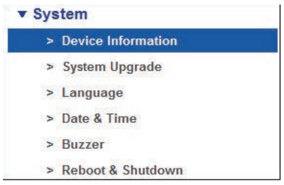
Also, **Device Event** shows the event originally set in the device.

5.6 System


▼ System
> Device Information
> System Upgrade
> Language
> Date & Time
> Buzzer
> Reboot & Shutdown

Device Information

Select “**Device Information**” from the **System** drop-down menu to begin.

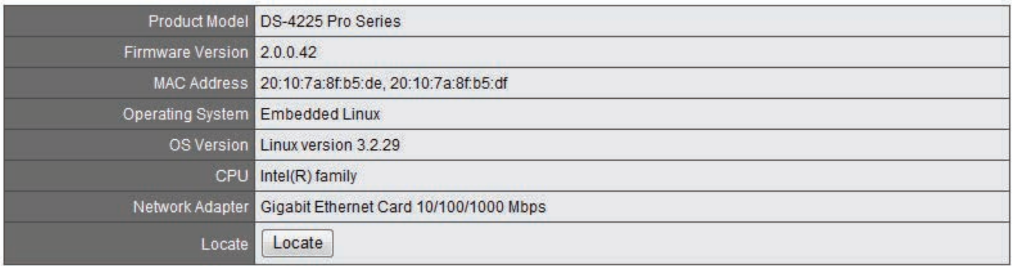

▼ System
> Device Information
> System Upgrade
> Language
> Date & Time
> Buzzer
> Reboot & Shutdown

- **System Information**

System Information shows **Operating System**, **OS Version**, **NVR Version**, **CPU**, **Network Adapter**, **MAC Address**, and **Network Flow**.

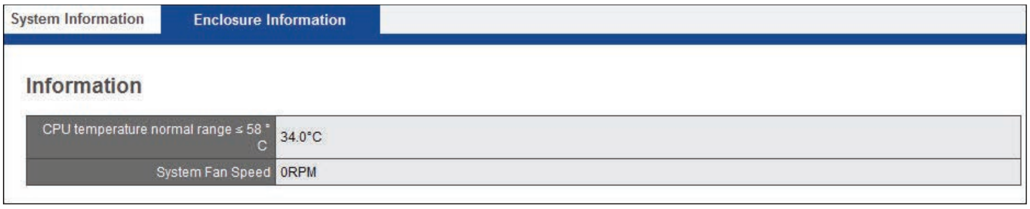
Locate

Click "Locate" and the NVRPRO buzzer is triggered for 3-seconds. It helps users to locate the NVRPRO.



Product Model	DS-4225 Pro Series
Firmware Version	2.0.0.42
MAC Address	20:10:7a:8f:b5:de, 20:10:7a:8f:b5:df
Operating System	Embedded Linux
OS Version	Linux version 3.2.29
CPU	Intel(R) family
Network Adapter	Gigabit Ethernet Card 10/100/1000 Mbps
Locate	Locate

- **Enclosure Information**


System Information
Enclosure Information

Information

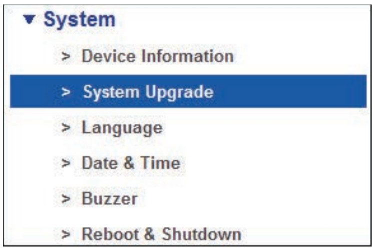
CPU temperature normal range ≤ 58 ° C	34.0°C
System Fan Speed	0RPM

Enclosure Information shows **CPU Temperature** and **System Fan Speed**.

⚠ **Note**: The operating temperature environment for NVRPRO is 0~40˚C.

System Upgrade

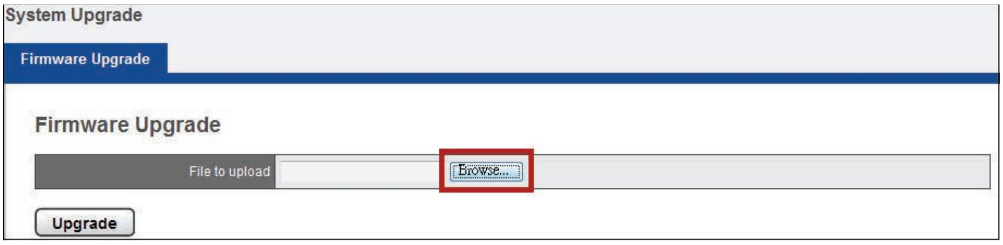
Select “**System Upgrade**” from the **System** drop-down menu to begin.


▼ System
> Device Information
> System Upgrade
> Language
> Date & Time
> Buzzer
> Reboot & Shutdown

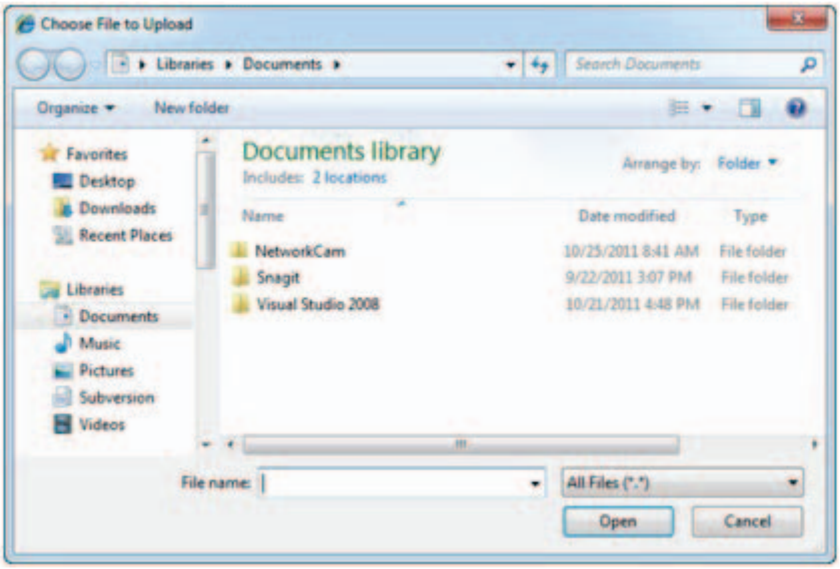
Genie CCTV occasionally issues new NVRPRO firmware to update functions. Please contact Genie CCTV to obtain access to the latest firmware.

Note: Please make sure the NVRPRO model and the firmware version are compatible.

After downloading the firmware file, users can upgrade new firmware from a folder of a local computer and browse the folder to upload it.

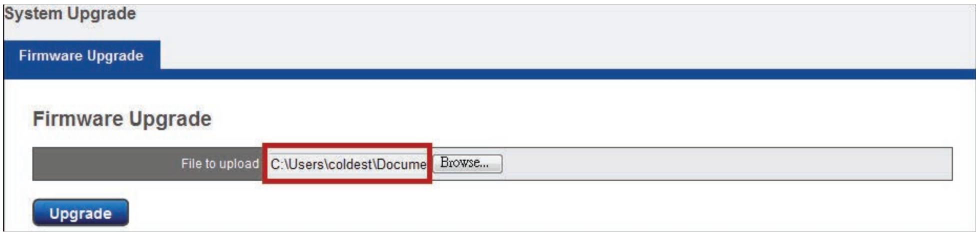

System Upgrade
Firmware Upgrade
Firmware Upgrade
File to upload
Browse...
Upgrade

A window will pop up to ask for the folder to upload the firmware.


Choose File to Upload
Libraries ▸ Documents ▸
Search Documents
Organize ▾
New folder
Favorites
Desktop
Downloads
Recent Places
Libraries
Documents
Music
Pictures
Subversion
Videos
Documents library
Includes: 2 locations
Arrange by: Folder ▾
File name:
All Files (*.*)
Open
Cancel

Name	Date modified	Type
NetworkCam	10/25/2011 8:41 AM	File folder
Snagit	9/22/2011 3:07 PM	File folder
Visual Studio 2008	10/21/2011 4:48 PM	File folder

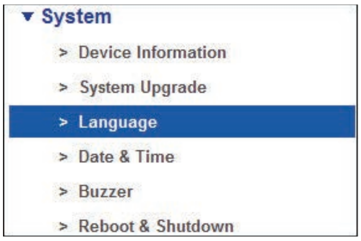
After you select the file, click “**Upgrade**” to upgrade the NVRPRO firmware.


System Upgrade
Firmware Upgrade
Firmware Upgrade
Browse...
Upgrade

File to upload: C:\Users\coldest\Docume

Language

Select “**Language**” from the **System** drop-down menu to begin.

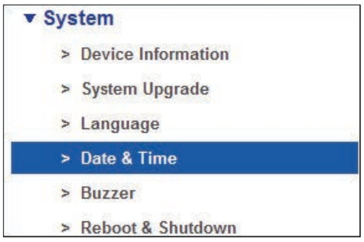

System
> Device Information
> System Upgrade
> Language
> Date & Time
> Buzzer
> Reboot & Shutdown

NVRPRO provides different languages options. Users can configure the language as **AUTO** or select other languages.

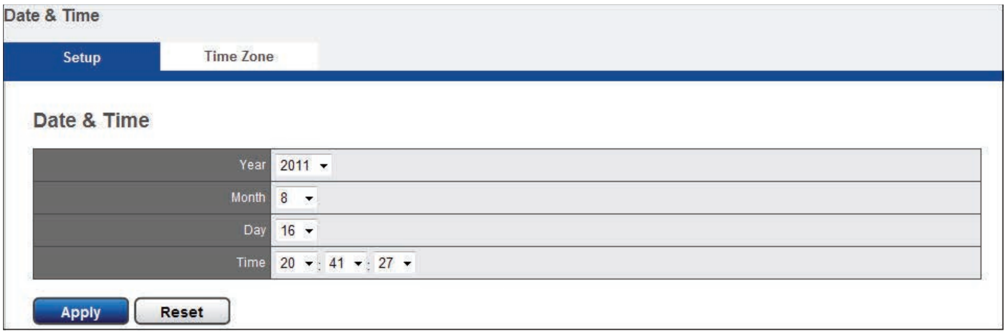
Click “**Apply**” and the language is changed.

Date &Time

Select “**Date & Time**” from the **System** drop-down menu to begin.


System
> Device Information
> System Upgrade
> Language
> Date & Time
> Buzzer
> Reboot & Shutdown

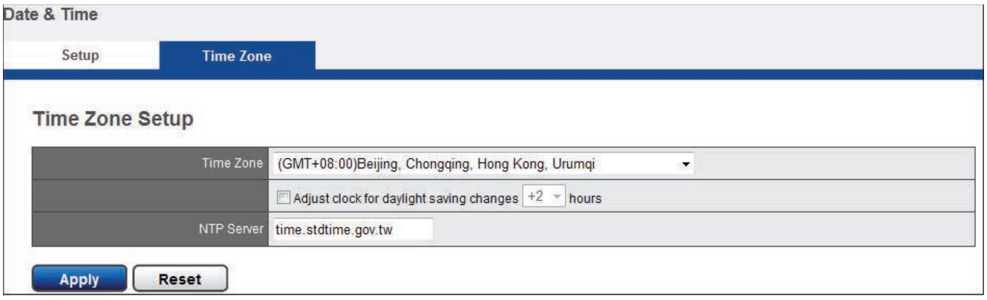
- **Set up**


Date & Time
Setup
Time Zone
Date & Time
Apply
Reset

Year: 2011
Month: 8
Day: 16
Time: 20 : 41 : 27

Select from the drop-down list and configure the time manually and the setting is effective when you click “**Apply**”.

- **Time zone**


Date & Time
Setup
Time Zone
Apply
Reset

Time Zone Setup

Time Zone: (GMT+08:00)Beijing, Chongqing, Hong Kong, Urumqi

☐ Adjust clock for daylight saving changes +2 hours

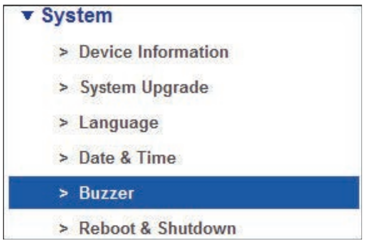
NTP Server: time.stdtime.gov.tw

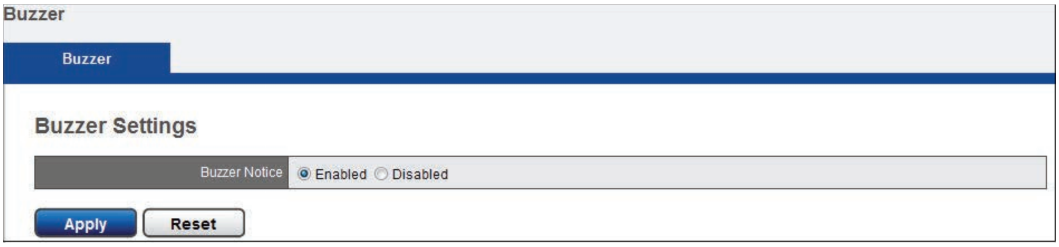
Set the time and date according to the correct time zone, and adjust the clock for daylight saving changes.

Enter the hostname of a valid NTP server.

Buzzer

Select “**Buzzer**” from the **System** drop-down menu to begin.


System
> Device Information
> System Upgrade
> Language
> Date & Time
> Buzzer
> Reboot & Shutdown


Buzzer
Buzzer
Apply
Reset

Buzzer Settings

Buzzer Notice: ● Enabled ○ Disabled

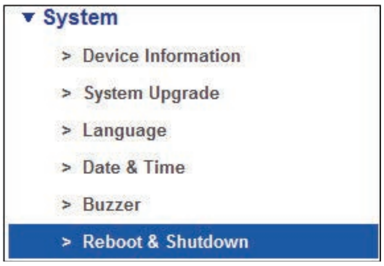
Select “**Enable**” or “**Disable**” to set Buzzer.

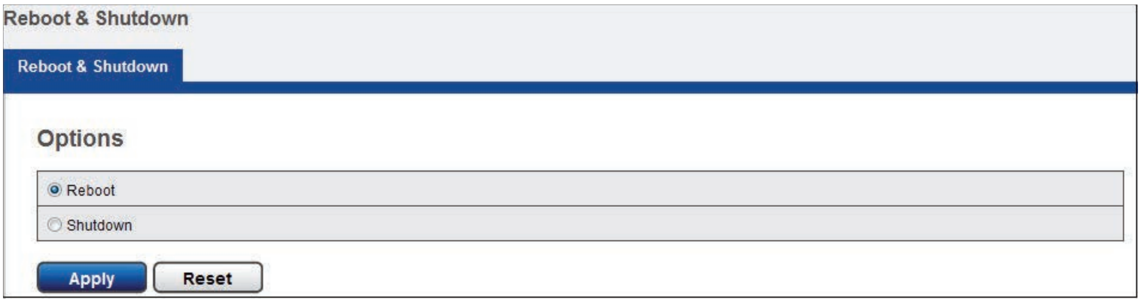
If the buzzer is disabled, the buzzer action digital output is not performed.

⚠ **Note**: To stop the buzzer sounding press the “**USB BACKUP**” button on the front panel of NVRPRO for one second.

Reboot & Shutdown

Select “**Reboot & Shutdown**” from the **System** drop-down menu to begin.


▼ System
> Device Information
> System Upgrade
> Language
> Date & Time
> Buzzer
> Reboot & Shutdown


Reboot & Shutdown
Reboot & Shutdown
Options
Apply
Reset

● Reboot

○ Shutdown

Click “**Reboot**” to restart the NVR.

Click “**Shutdown**” to turn off the NVR.

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